



Magaya Software Customization Manual



Guide to

- Automating Accounting Transactions
- Customizing Rates and Tarifs
- Creating Custom Fields
- Customizing Documents
- Adding JavaScript to Documents

Magaya Software Customization Manual

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1. How To Use This Manual

Introduction

Welcome to the *Magaya Software Customization Manual*.

This manual is designed to teach you how to customize your Magaya software to meet the needs of your individual business.

Magaya software is designed for logistics providers, freight forwarders, NVOCC's, consolidators, forwarding agents, couriers, warehouse providers and others in the logistics industry. Magaya software contains many customization options, operations functions, trade documents, and a complete accounting system that integrates the accounting and operations functions.

How this Manual is Organized

This manual is designed to be task oriented. You can skip to any topic you need and get step-by-step procedures for the customization options available in Magaya software. You can also click on any word in the Index to go directly to that topic in the PDF. This manual is organized into the following sections:

- **Automated Accounting:** Customize your software to automate the creation of charges; set up recurring accounting transactions for invoices, bills, and checks; create periodic invoices; set up tariffs and rates for carriers and customers
- **Configuration Menu:** Use these options to set up document numbering, enter custom clauses to use in shipments and other transactions, set up transaction tracking, define tasks, and many other options
- **Custom Fields:** Create your own customized fields to gather information that is specific to your business and use it in transactions, documents, and reports
- **Divisions:** Enter information about different divisions in your company and use that information in documents
- **Customize Documents:** Customize existing documents such as invoices and warehouse receipts, or create new, custom documents to display your company logo, custom fields, and more using the Magaya Document Designer program that is included with all Magaya software

- **Insert JavaScript into a Template:** Customize your software by adding JavaScript into templates that your company can use
- **Magaya Database Administrator:** Access the functions of the Magaya Database Server Agent to create a backup of your database, create a custom schedule of backups, and more
- **JavaScript Basics:** A resource of basic information on variables, operators, mathematical functions, and conditionals

Where to Find Help

If you have questions or need help, please contact Magaya Corporation:

Phone: (786) 845-9150

Email: support@magaya.com

Video tutorials, how-to tips, and other user manuals such as the *Magaya Cargo System Operations Manual* are available to view or download from the Magaya website: www.magaya.com. Additional tips can be found in the Magaya Explorer dialog boxes and screens. Videos are also on YouTube.

Use of the Magaya software and its documentation are governed by the terms set forth in your license.

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2. Automated Accounting

Introduction to Automated Accounting

Magaya Explorer provides options to automate the creation of accounting transactions. This process is divided into two steps: 1) First, create the transaction, and 2) tell the system how to calculate the prices.

1) Automated creation of accounting transactions is done with the following features:

- Automatic creation of charges in operations and when working with routes
- Recurring accounting transactions
- Periodic invoices

2) Calculate the prices or fees for the created transactions with the following features:

- Tariffs
- Rates for carriers and clients (i.e., your customers)
- Manage contracts

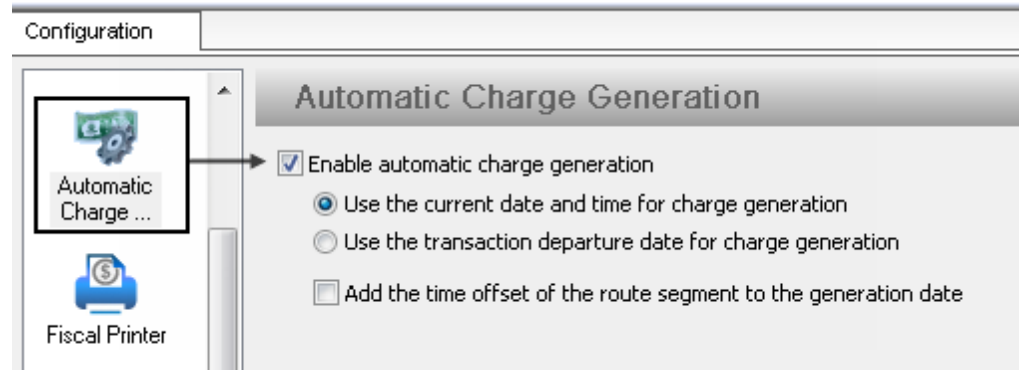
Automated Creation of Charges

Magaya Explorer enables you to add charges and make them appear automatically in operations transactions. If you set up charges and tell the system to add them to transactions automatically, then the charges will appear each time that type of transaction or document is created. The charges are also carried over from one transaction to another when you convert one into another. For example, charges added to a Pickup Order or Warehouse Receipt are carried over into a Shipment when the transaction is converted. The created charges will also be used later in the liquidation to create accounting transactions.

Existing charges in your Magaya system can be automated, or you can create new ones and automate them.

Set Up:

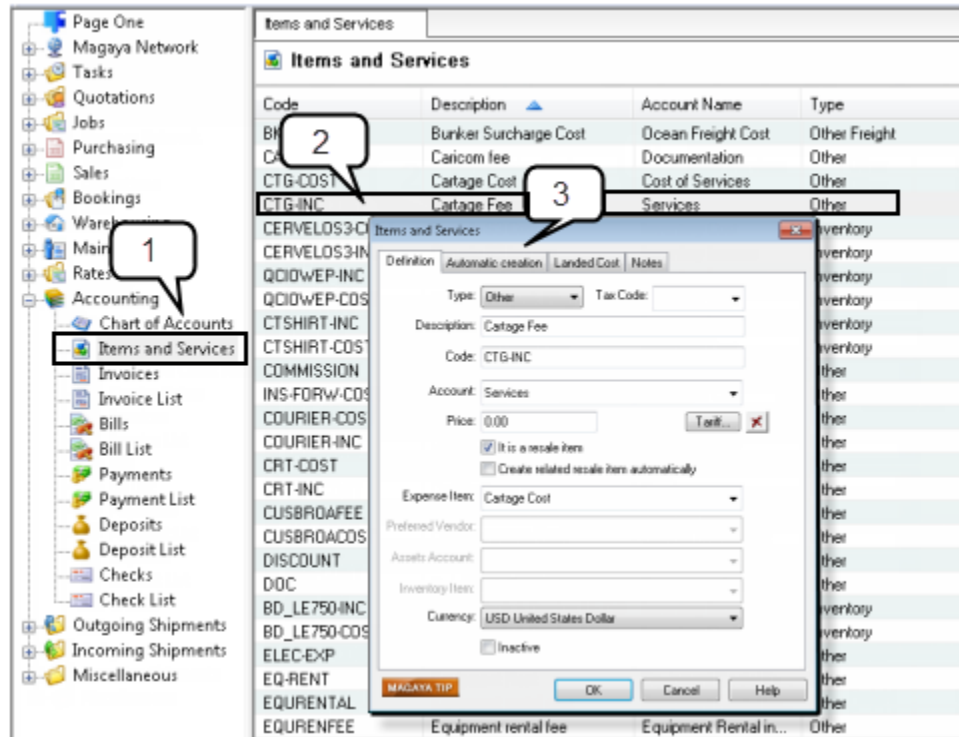
Go to Maintenance > Configuration > Automatic Charge Generation. Verify the checkbox is checked to allow automatic generation of charges. The setting is on by default and set to use the current date. Modify the date setting as needed.



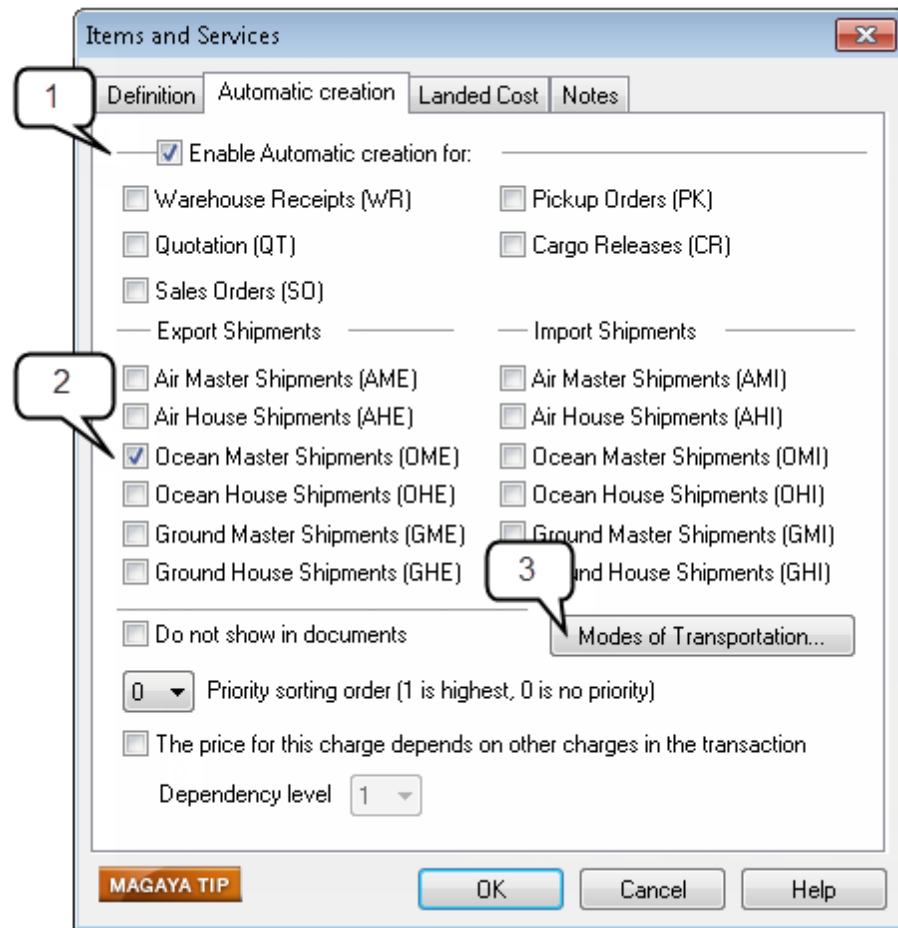
To set up automation **on existing charges**, follow these steps:

- 1) Go to the Accounting folder in Magaya Explorer > Items and Services.
- 2) Select an item that you want to automate, for example, the Cartage Fee. In this example we will add a charge to each containerized ocean export shipment for taking the container to the port. Double-click on "Cartage Fee" (or select it and click the Edit button).

3) The “Items and Services” dialog box for the Cartage Fee opens:



Click the “Automatic Creation” tab and follow these steps:



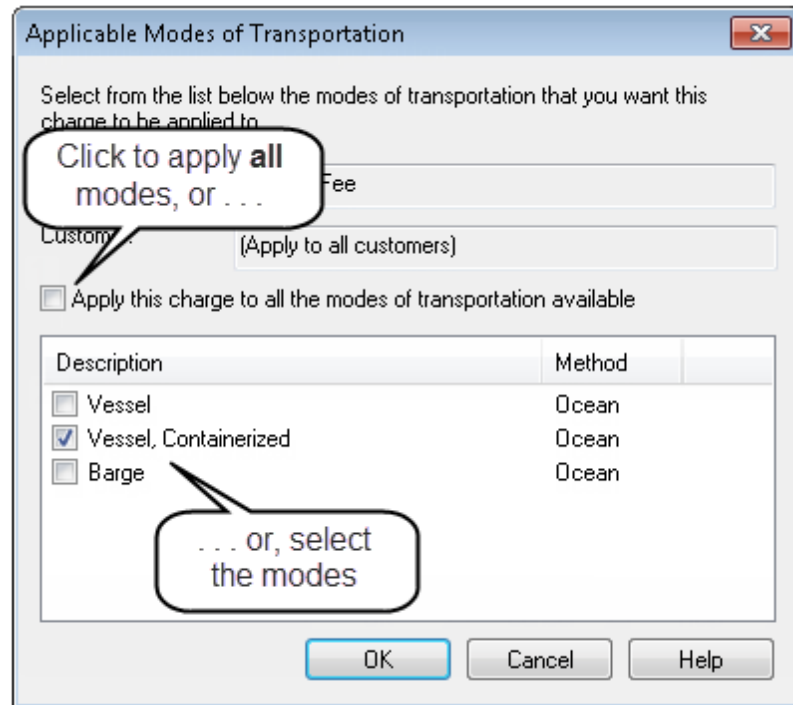
Activate the checkboxes by clicking on the box next to “Enable Automatic creation for:” and a checkmark will appear in the box (1).

Check Ocean House Shipment (OHE) under the Export Shipments list (2).

Click on the “Modes of Transportation” button (3):

- In the screen that opens, uncheck the box to "Apply this charge to all the modes of transportation available (1). Then uncheck the other boxes

"Vessel" and "Barge" so only the "Vessel, Containerized" option is checked (2):



Click OK in the Applicable (applicable) Modes of Transportation dialog box to return to the Items and Services dialog box. (Using the Modes of Transportation button is optional, but for this example we used it because we want only the "Vessel, Containerized" mode.)

- To allow the charges to appear in the operations documentation that is viewable to customers, leave the checkbox blank for "Do not Show in Documents." If you do **not** want the charges to appear in the operations documents, check the box.
- If the price for this charge depends on other charges, click this checkbox. For example, if you include an insurance charge in a transaction, that charge depends on the freight and value of the cargo (which will be calculated first). The Priority setting only applies to how the charge will be displayed in documents, LiveTrack and Transaction Tracking. See more details on these functions in the chapter "Items & Services."
- Click the OK button when done.

Result: When you are done, the Items and Services list will show which transactions have charges that will be automatically created.

Code	Description ▲	Account Name	Automatic Creation
DUC-BL	Bill of Lading Documen...	Documentation	
BKS-INC	Bunker Surcharge	Ocean Freight Inc...	
BKS-COST	Bunker Surcharge Cost	Ocean Freight Cost	
CARFEE	Caricom fee	Documentation	
CTG-COST	Cartage Cost	Cost of Services	
CTG-INC	Cartage Fee	Services	OHE
CERVELO3...	Cervelo S3 Cost	Inventory Cost	
CERVELO3...	Cervelo S3 income	Inventory Income	
CRT-COST	Crating Cost	Cost of Services	
CRT-INC	Crating Fee	Services	
CUSBROAFEE	Custom Broker Fee	Customs Broker in...	

In this example, when an Ocean House Export (OHE) shipment is created and "vessel containerized" is selected as the mode of transportation, a charge for Cartage Service will be added to that house shipment. (Charges created automatically will always be added after you selected the "client to bill" for that transaction.)

The price of the created charge will be calculated based on the tariff or rate set for that charge. See the section on Tariffs and Rates for details.

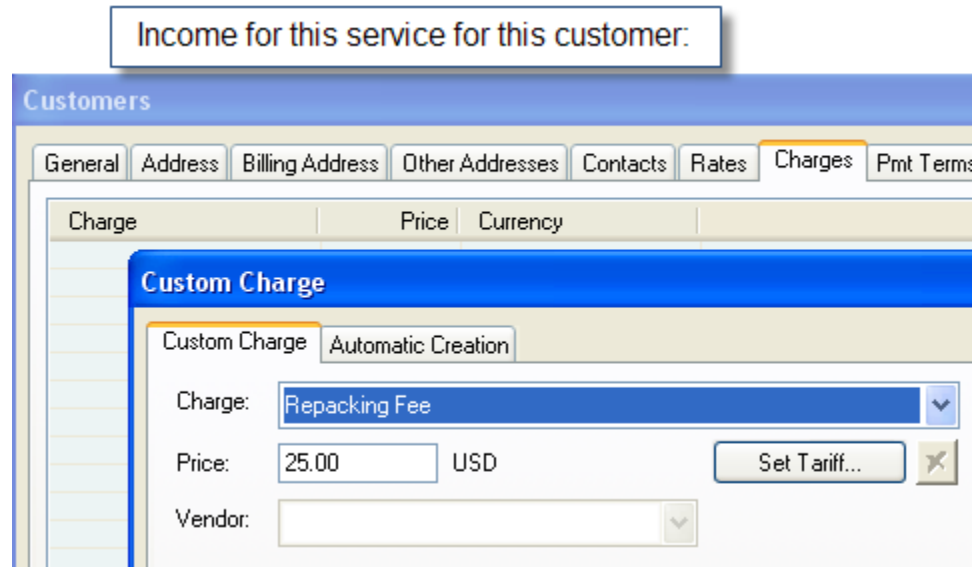
Note: In addition to adding the Automatic Creation functionality to an existing Item or Service, you can also **add a new Item or Service and automate charges** for it. For example you may want to automate an Express Shipment Surcharge for high-priority shipments. Then, each time you create a high-priority shipment, the surcharge will be added. Use the Add button in the Items and Services list to add a new item and automate the charge, following the same steps above.

Any automated charges you create will be added to online shipping orders as applicable when your customers create Pickup Orders, Cargo Releases, or Shipments in Magaya LiveTrack.

Note: If you want charges to be automated in online sales orders, enable the charges you want from the Items & Service list, and then activate this option in the Configuration > Online Sales Orders > "Generate charges automatically for online sales orders." Then customers will see the charges online.

Automate Charges per Customer

You can also automate or override charges per customer on the Charges tab of the Customer profile dialog box. For example, you can add an income item that applies to this customer.



- 1) Open the Customer profile dialog box, go to the “Charges” tab, and click “Add.”
- 2) Select the charge. You can select income or expense charges.
- 3) Enter a fixed price or set a tariff. (For help setting a tariff, see the section “Customize a Tariff.”)
- 4) Optional, depending on the type of accounting transaction you are creating: Select the vendor to apply the cost to, if this is an expense for you. This option is useful when you perform work for a customer and incur expenses that you need to pay to a vendor.

If you do not want the charge to appear in documents, check the box.

If the calculation of this charge depends on other charges in the transaction, check the box.

If you want to make this charge automatically appear in certain transactions, click the tab “Automatic Creation” and select the transaction.

Click “OK” to save the charge and again to save it for the customer profile.

Creating Charges from Routes

In Magaya software version 9.0 and higher, there is a feature that enables you to create routes and add charges for them. The routes management feature creates segments and routes for multimodal shipments.

- You can add **cost** charges for routes, and those charges will appear automatically on the Master of a shipment that you create using the route.
- When you add **sales** charges to a route, that charge will appear on the House section of a shipment transaction.

If a shipment does not have a route selected, your Magaya system will create charges will use the automatic creation of charges setting.

Recurrent Accounting

Introduction to Recurrent Accounting

In Magaya Explorer you can set up recurring accounting transactions for:

- Invoices
- Bills
- Checks

For example, you can create a recurring invoice for your regular customers such as suppliers who store goods in your warehouse. The recurrent invoice charges them every month for storage. A wizard walks you through the setup so you do not have to create the invoice each month or other time period you set.

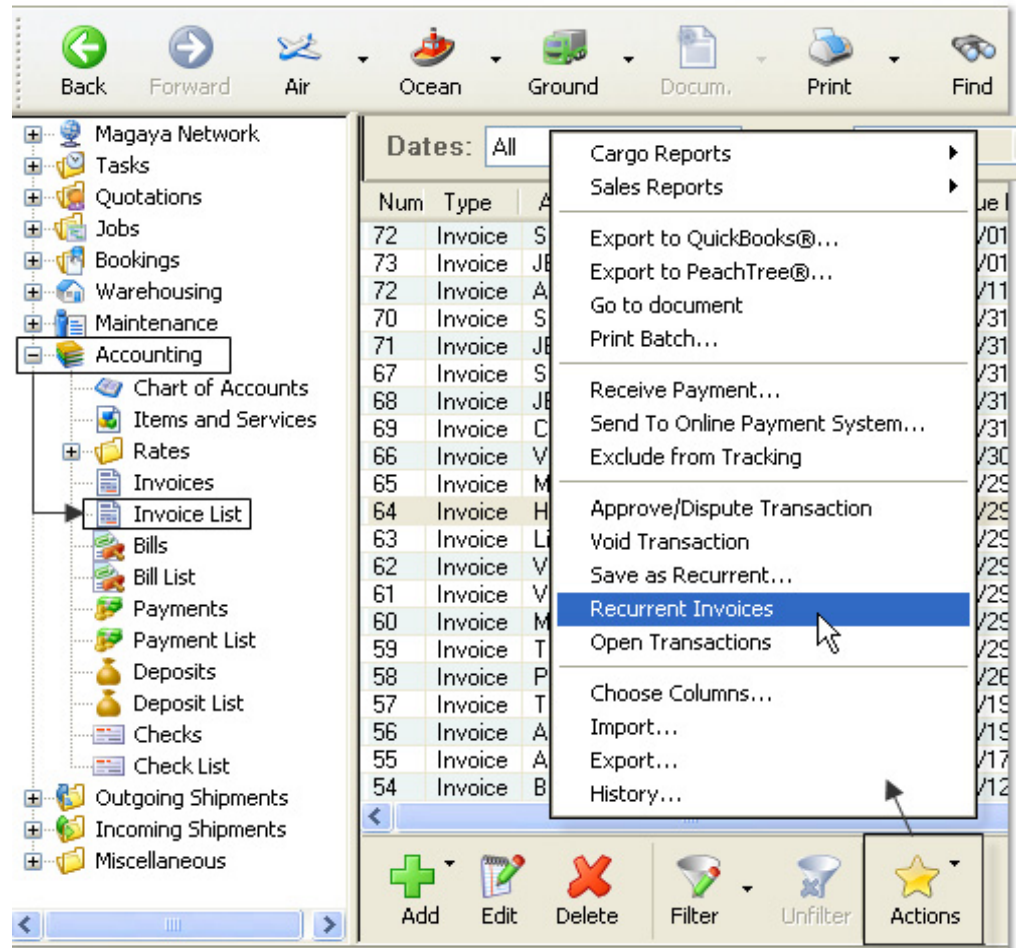
Set Up:

Go to Maintenance > Configuration > Accounting and check the option “Automatically generate recurrent transactions”.

Create a Recurring Invoice

To create a recurring invoice template in Magaya Explorer, follow these steps:

- 1) Go to the Invoice List.
- 2) Click the Actions button and select “Recurrent Invoices”:



When the list of recurrent invoices opens, click the Add button:

Recurrent Invoices

Dates: All

From: 9/18/2009

To:

Type	Number	Applied to	Date	Account Name
Invoice	126	Caterpillar Equipment	12/11/2008	Accounts Receivable
Invoice	125	JB Wire Co.	12/10/2008	Accounts Receivable
Invoice		Bell Helmets	12/09/2008	Accounts Receivable
Invoice		Shimano	12/09/2008	Accounts Receivable

+

Add

Edit

X

Delete

Filter

Unfilter

★

Actions

A dialog box opens the Recurrent Transaction Wizard. This wizard will create a template for a new recurring invoice. All future invoices for this customer will be built on this.

Every month when the system automatically generates the next recurring invoice for the customer, this template will be used. The date and charge amounts will be updated each month to reflect the new charges, while the other elements of the template such as the customer’s address will be the same. You will not have to re-enter the information. If you need to change something such as the address in the future, you can edit the recurrent invoice by using the Edit button.

The first screen in the Recurrent Transaction Wizard contains the following:

Recurrent Transaction Wizard

Recurrent Transaction Details
Enter the details of what you want to be invoiced with this recurrent transaction. When you relate this transaction to the cargo in the warehouse, you should use a Tariff to calculate the right prices.

Number: 1457
Account: Accounts Receivable
Transaction Date: 6/13/2011

Apply to: Republic Shipping
Billing Address: Change...

Charges Accounts

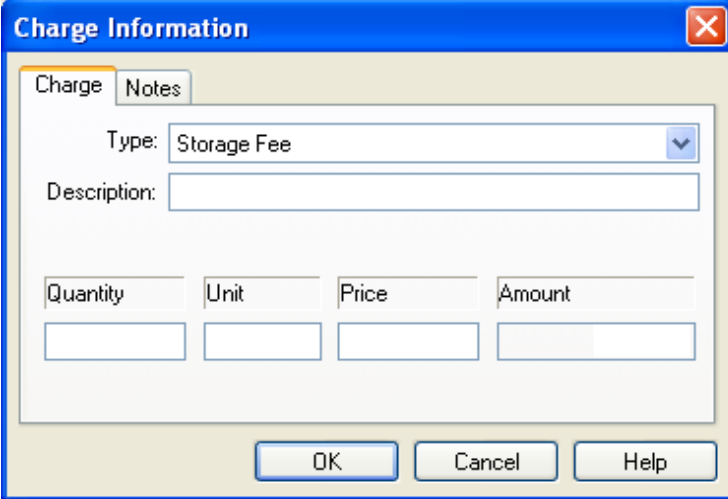
Status	Description	Prep...	Quantity	Price	Amount

Paid as: Prepaid
Amount: USD 0.00 Tax: USD 0.00
Total Amount: USD 0.00
Amount Due: USD 0.00

< Back Next > Cancel Help

- Enter the transaction number in the “Number” field. This is the number of this template, not the number of the invoice. The invoice number will be generated at the moment that the invoice is automatically generated.
- Click on the “Apply to” dropdown menu to select the customer that will receive the recurrent invoice. The address displays automatically. To change it for this transaction, click the Change button. The date is filled in automatically.
- Select the Account this transaction will refer to such as Accounts Receivable.
- The Transaction Date is set automatically to today’s date. Change it as needed. This is the date that you created this template.

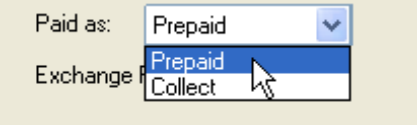
- Click the Add button in the wizard screen to add a charge. A dialog box opens:



The "Charge Information" dialog box has a blue title bar with a close button. It contains two tabs: "Charge" (selected) and "Notes". Under the "Charge" tab, there is a "Type:" dropdown menu with "Storage Fee" selected, and a "Description:" text box. Below these is a table with four columns: "Quantity", "Unit", "Price", and "Amount". The table has one row with empty input fields. At the bottom are "OK", "Cancel", and "Help" buttons.

Quantity	Unit	Price	Amount

- a) Select the type of charge such as Storage Fee (this is an income item).
 - b) Enter a description (optional).
 - c) The quantity, units (such as pounds), and the price will be calculated by the system automatically each time the invoice is generated. A price can be added if you want to have a set charge not based on the cargo on hand.
 - d) Click the OK button to return to the wizard screen.
- Set the "Paid as" option to either Prepaid or Collect based on the terms of the agreement for this recurring invoice.



A dropdown menu for "Paid as:" with "Prepaid" selected. The dropdown list is open, showing "Prepaid" and "Collect" as options. A mouse cursor is pointing at the "Collect" option.

- Click the Next button to go to the next screen in the wizard.

The next screen in the wizard enables you to set the frequency of the invoice.

Recurrent Transaction Wizard

Recurrent Transaction Settings

Here you can set the start and end dates of the recurrent transaction as well as how often you would like it to be generated. You could also apply this transaction to the cargo in the warehouse for charges such as "Storage Fee", "Insurance Fee", etc.

Start Date: 6/13/2011

End Date: 7/28/2010 ☒ Never Ends

Generate: Monthly day 1

☐ Charge in Advance

☒ Apply to "On Hand" cargo in the Warehouse

If you select this option, charges will be calculated based on the tariffs applied to the "On Hand" warehouse receipts

Amount of days before start billing each warehouse receipt: 10 days.

☐ Generate a separated charge per line item

☐ Calculate charges based on the smallest packing unit (Ex. boxes inside pallets)

☐ Disable recurring transaction

< Back Next > Cancel Help

- Select the start date. Today's date is filled in automatically. Change it as needed. This is the date that the system will begin generating these invoices. You may create the invoice template to begin invoicing the customer starting next week, for example. Next week's date will be used in the invoice. You can also set up retroactive recurrent invoices by using a past date.
- Set the end date, or check "Never Ends" if the service is continuous.
- Generate: Select the frequency that you want to generate the invoice: If you select Monthly, also select the day of the month (1-31) If you select the 31st, the system will default to the 30th for months that do not have 31 days. If you select Weekly, the invoice will be generated on Fridays.
- You can charge the customer in advance by clicking on the checkbox. If not, uncheck the box (it is unchecked by default). When charging monthly in advance, the customer is paying for that whole month in advance.
- The checkbox for "On Hand" cargo in the warehouse is used for fees. The box is unchecked by default. Checking the box activates the fields below it. Use this option to calculate the fee on the invoice based on the amount of cargo on hand for the client. The price will be calculated based on the tariff

you set up; in this example it is for storage. See the section on “Tariffs and Rates” for details.

If you want to give a customer some free days before charging for services such as storage to encourage quick movement of cargo, add the number of days in the days field “Amount of days before”.

- Other options are:

Generate a separate charge per line item. The number of charge lines in the resulting invoice will be the same as the number of cargo lines in the related warehouse receipt. This is useful to itemize oversized cargo.

Calculate charges based on the smallest packing unit. (If unchecked, the price will be calculated by pallet.) If the cargo is repacked in pallets, the price will be calculated based on the items inside the pallet.

You can also disable the recurring transaction by clicking in the Disable box.

- Click the “Next” button.

The next screen gives you the option to set up automated payment of the recurrent invoice.

- This feature uses the PaySimple service provider. This service must be activated in your Maintenance > Configuration menu and activated for

this customer before doing this step. For details on setting up this service, please see the *Magaya Software Communications Manual*.

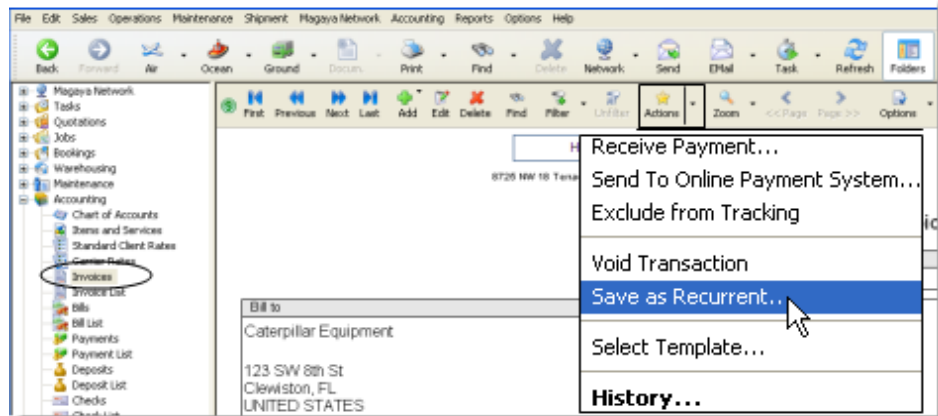
The screenshot shows a window titled "Recurrent Transaction Wizard" with a close button in the top right corner. Below the title bar is a section titled "Online Payment Configuration" with a blue arrow icon pointing down. The text below the title says: "Configure automatic payment processing for this recurrent invoice. The client will be charged via credit card or ACH automatically using the Online Payment System." Below this is a checkbox labeled "Enable Online Payments with PaySimple (At this moment for USD only)" which is checked. Underneath is a label "Account List" followed by a text input field. Below that is a label "Select Account:" followed by a dropdown menu showing "Visa card". Below the dropdown is a checkbox labeled "Apply only to approved invoices." which is unchecked. Below that is a label "Apply Payment Date" followed by a text input field. Below the text input field are two radio buttons: "Apply immediately" (which is selected) and "Apply on:". Below "Apply on:" are two radio buttons: "5 days after creation date." (which is selected) and "0 days before due date." Below the radio buttons are four buttons: "< Back", "Finish", "Cancel", and "Help".

- Check the box to enable online payments with PaySimple.
- Select the account such as a Visa or Master Card that you entered in the Customer profile.
- If you want to apply this payment method to invoices that the customer approved, check this box. Note: Customer approval and dispute permissions can be set up in the Web Track User list in Customers > Actions.
- Decide the date to apply the payment: Apply it immediately; set the number of days after the date that the recurrent invoice is created; or set the number of days before the due date.
- Click the “Finish” button to save.

Result: The recurring invoice template is added to the list of Recurrent Invoices. On the first of the month (or preset day), a new invoice will be created for that customer. The invoice appears in the Invoices List. If you are using the PayCargo service, you can send the invoice to that service so the customer can

pay it online; or you can give the customer Magaya LiveTrack permissions to pay the invoice themselves online.

Note: You can also save an existing invoice as recurring by clicking on the Actions button when you are in the document view of the invoice:



The wizard opens. Fill in the fields as explained above. (You can also save an existing invoice as recurring when you are in the Invoices List. Right-click on the invoice and select “Save as Recurrent” from the pop-up menu.)

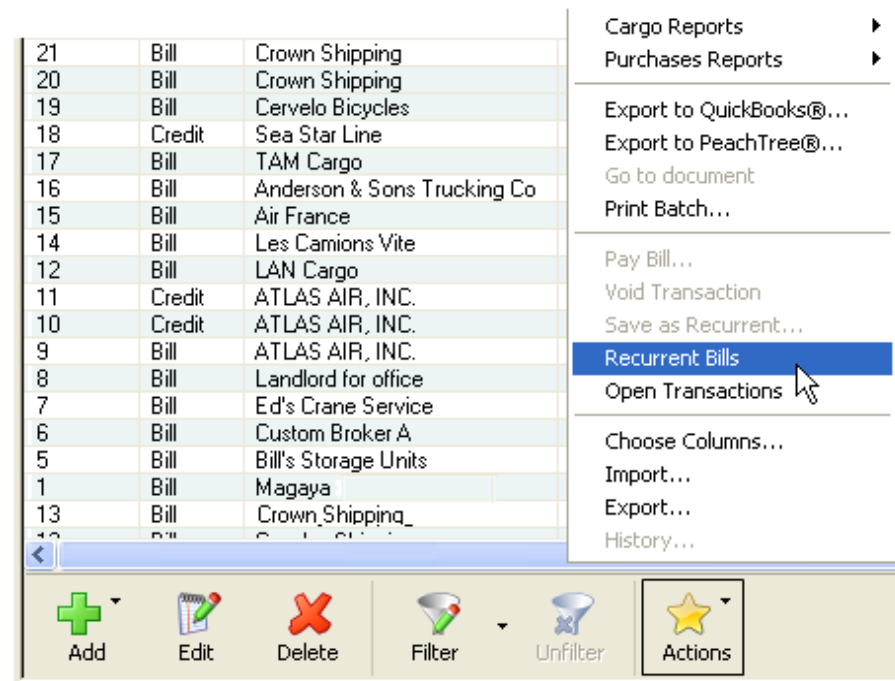
You can enable the online payment service from PaySimple by going to the Pmt. Terms (Payment Terms) tab of the customer’s profile. For details on setting up this service, please see the *Magaya Software Communications Manual*.

Create a Recurring Bill

To create a recurring bill:

- 1) Go to the Bill List in the Accounting folder.

2) Click the Actions button and select Recurrent Bills:



The list of recurrent bills opens. If you have not created any recurring bills yet, the list will be blank.

In the Recurrent Bills list, click the Add button. A dialog box opens the Recurrent Transaction Wizard. This is the same wizard used to make a recurring invoice. See the section on recurring invoices for details.

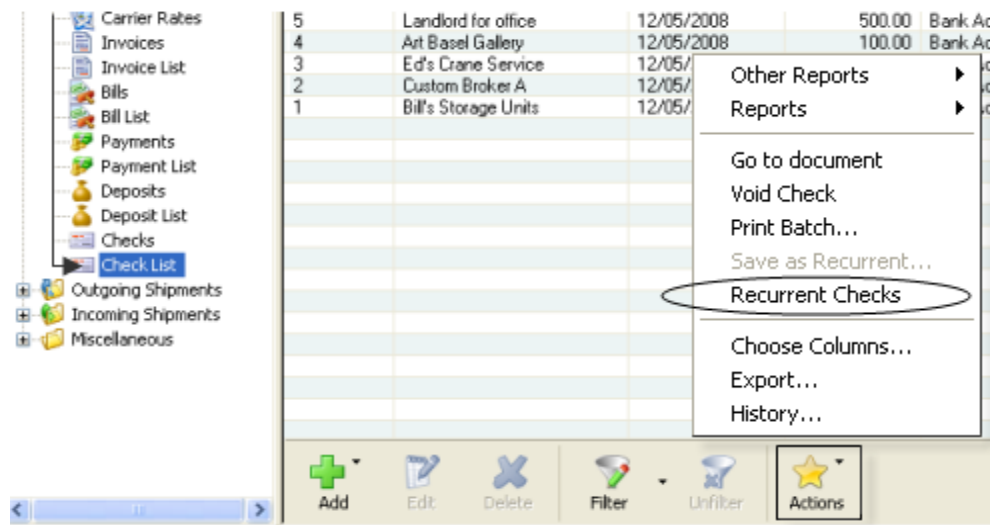
You can also create a Recurring Bill from an existing bill: Go to the document view of the bill and click on the Actions button. The same Recurrent Transaction Wizard opens. Follow the steps above.

Create a Recurring Check

Recurring checks can be created to pay for expenses that you have on a regular basis such as paying rent or insurance every month.

To create a recurring check:

1) Go to the Checks List, click on the Actions button. Select “Recurrent Checks”.



A new list opens. If you have existing recurrent checks in the system, they will be displayed in the list. If you do not have any, the list will be blank.

2) Click the Add button to add a new recurring check. A “Recurrent Transaction Wizard” dialog box opens.

Recurrent Transaction Wizard

Recurrent Transaction Details
Enter the details of what you want to pay with this recurrent transaction.
Select the right vendor and account.

Bank Account: Bank Account Number: 27
Pay to the order of: Insurance Vendor Date: 7/26/2012
Memo: Amount (USD): 67.00
Division:

-Detail (USD)

Account Name	Amount	Description	Entity
Insurance Cost	67.00		
	0.00		

Exchange Rate: 1.00 Total: USD 67.00
Current Balance: USD 19803.00

< Back Next > Cancel Help

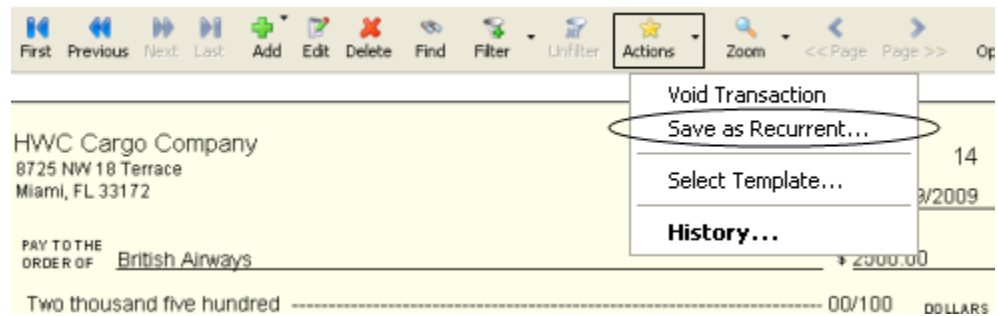
- Select the bank account you want to use to pay this recurring check.
- Select who to pay this check to for the “Pay to the order of” dropdown.
- Optional: Enter a memo (note) if needed. Select a Division if applicable.
- Click the “Add” button. A line in the Detail table will be highlighted. Click in each field to enter information or use the dropdowns as they become active.

The total will be calculated.

- Click the “Next” button. The next page of the wizard enables you to set the frequency of the recurring check. The fields on this screen are the same as for creating a recurring invoice.

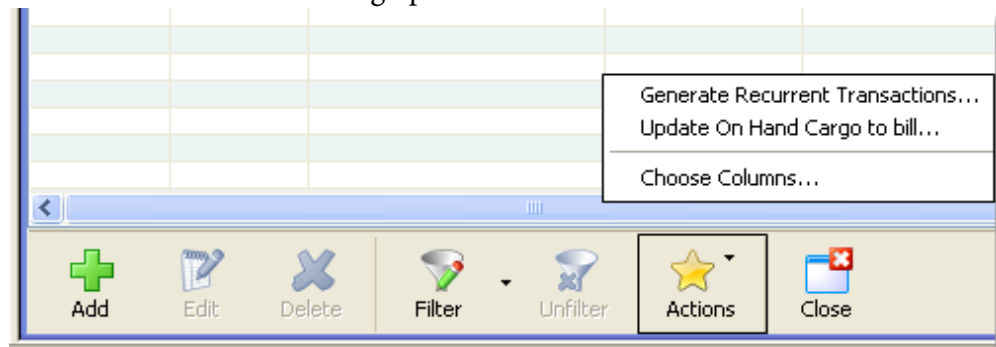
You can also create a recurring check from the document view such as right after you write a “Check to Expense” type of check. (The other types of checks

cannot be made into recurring checks.) Click on the Actions button. Select “Save as Recurrent.” The same wizard dialog box will open.



Actions for Recurrent Transactions

In the Recurrent Invoices list (and the Recurrent Bills list), click on the Actions button to access the following options:



- **Generate Recurrent Transactions:** If there are transactions due to be generated, they will be generated when you click the button. Otherwise, a note will state that there are no transactions to generate at this time. When you log into the Magaya system, you will receive a notice if there are any transactions to be generated (if you have accounting permissions). You can click “Yes” to generate them or “No” to generate them at another time.
- **Update On Hand Cargo to bill:** A note pops up to notify you that the update is in progress. This will link a new recurrent transaction with warehouse receipts previously received for the customer. This is normally done automatically, but this manual option is available.
- **Choose Columns:** As with any list, you can choose the columns and their arrangement.

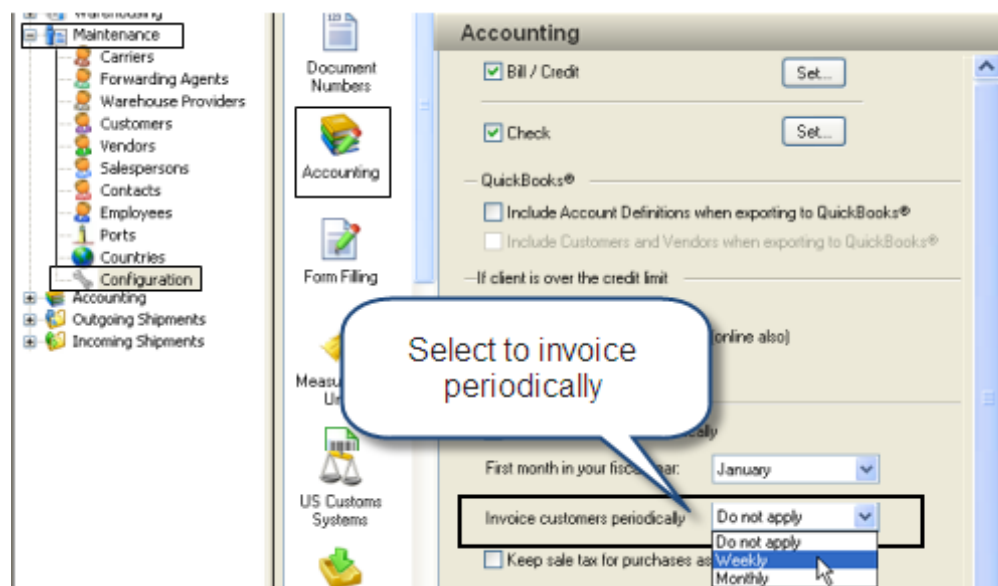
Periodic Invoices

A Periodic Invoice will gather all the charges for a customer and place them on one invoice during a week or month.

Steps

1) First, to enable this function for your Magaya system, go to the Maintenance folder > Configuration menu and select the Accounting section.

- In the Accounting configuration options, select the time frequency of the periodic invoices. Use the dropdown menu to choose Weekly (Fridays) or Monthly (select up to five dates during the month).



Save your settings.

2) To set up Periodic Invoices for specific customers:

- Go to the Maintenance folder and click on “Customers”.



- Select the customer that you want to create a periodic invoice for (double-click on the name to open the Customer dialog box).

- Go to the Payment Terms (“Pmt Terms”) tab:

Note: The only items on this tab that will be discussed here are the ones related to periodic invoicing. (The TSA known shipper is covered in the *Magaya Cargo System Operations Manual*.)

You can select how often you want to invoice by clicking the dropdown menu “Invoice periodically”:

- Use default: This will use the default you preset in the Maintenance > Configuration menu that applies to all customers.
- Never apply: Use this to turn this feature off.
- Weekly: This customer will be invoiced every week. All the operations charges during the week will be added to an invoice each Friday.
- Monthly: When you select this option, additional fields appear so you can set up to five separate dates to generate invoices. This customer will be invoiced on the dates you select.

When you are done, click the OK button to save.

Periodic Billing for Vendors

The system provides the option to group all the bills generated for a vendor in a period (week, month).

To enable this option, go to the Payment Terms (Pmt. Terms) tab of the Vendor profile.

For example, set up the monthly billing period for a vendor such as an insurance broker so that every time a new insurance certificate is created, the system adds the cost charge of the insurance to this monthly bill.

This guarantees that the bill created matches the monthly insurance invoice generated by the broker for the same month. If this is not done, you will have as many bills as insurance declarations submitted during the month to match one invoice.

Tariffs and Rates: Introduction

Introduction to Tariffs and Rates

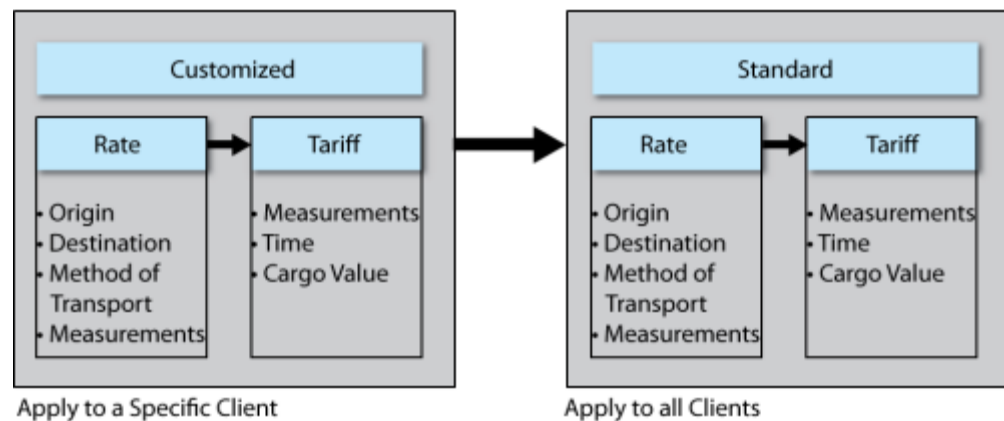
Tariffs and Rates can be set up in Magaya Explorer to calculate prices for transactions. The difference between Tariffs and Rates is:

- Tariffs are prices you set for services that you offer. The price depends on the measurement, value, and storage time of the cargo.
- Rates are calculated based on the measurement information plus the mode of transportation, and the origin and destination information for the cargo.

How to use Tariffs and Rates: Tariffs are most often used for charges that are static such as storage, insurance, etc. Rates are for freight charges.

How the system will process the tariffs and rates:

- 1) First the system will look in the Customer profile for the rate that is based on origin, destination, mode of transport, and cargo measurements. If there isn't a customer rate, then:
- 2) The system will look for a tariff (which is on the Charges tab of the Customer profile) based on cargo measurements, time, and value. If the system does not find one, then:
- 3) The system will check the Standard Client Rates based on origin, destination, mode of transport, and cargo measurements. If the system does not find one, then:
- 4) The system will check for a tariff in Items and Services based on cargo measurements, time, and value.

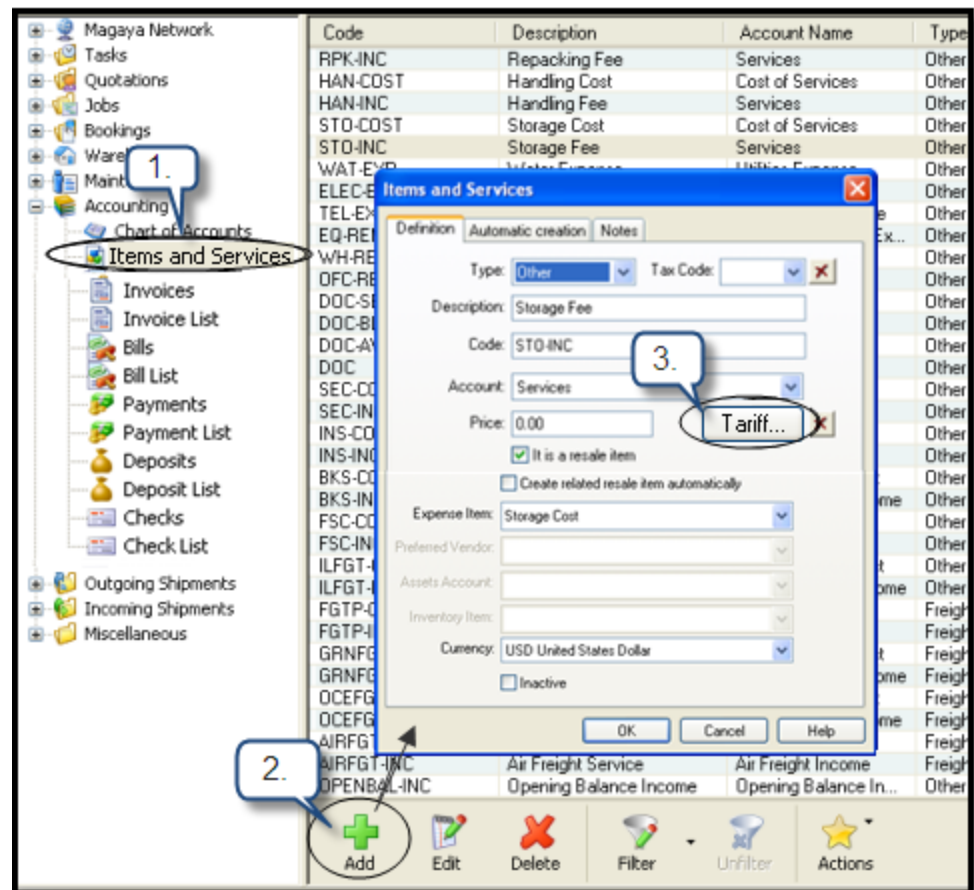


Tariffs

Tariffs: Introduction

Tariffs are prices you set for services you offer such as refrigerated storage. The price depends on the measurement (pieces, weight, and volume) value of the cargo, and the time it is in storage. Let's see how to set up tariffs in Items and Services under the Accounting folder.

The Tariff button is available on each Items and Services dialog box.



How to Set Up Tariffs

Follow the steps below to set up tariffs in your Magaya Explorer.

- 1) In the **Items & Services** folder, open an item or a service and click on the Tariff button. A dialog box opens:

Tariff

Apply by: Weight Pound(lb)

☐ Use Gross Weight instead of Chargeable Weight

Prices in USD

Min.: 0.00 Max.: 0.00

Rate per: Unit 1.00 lb

More than	Rate
1.00	0.00000

Tariff details

Add Remove

Ok Cancel Help

The tariff will be calculated in the currency that is selected in the Items and Services screen. The screenshot above shows “Prices in USD”.

Select the option you want in the “Apply by” field:

Tariff

Apply by: Weight Pound(lb)

Prices in US

Min.: 0.00

More than	Rate
1.00	0.50000
100.00	0.35000

Tariff details

Add Remove

Weight: This gives you the option to select the weight units (pounds, kilograms, ton, ounce, or Troy ounce).

Min/Max: In the Tariff dialog box, you have the option of entering a minimum and maximum price: Enter the amount in the fields “Min.” and “Max.” as needed.

Rate per unit: Set the unit as needed. For example 50 cents for every 2

pounds (lb).

When charging by weight, the Tariff screen lets you charge a rate that varies based on the weight (range).

Example: For shipments that weigh more than 1 pound but less than 50 pounds, the rate might be 1.00 per pound. For a shipment weighing 51 to 100 pounds, the rate might be 0.75 per pound.

Click on the Add button. This activates the cells in the table.

More than	Rate
1.00	1.00000
50.00	0.75000

Click in the table cells to enter information. Click the OK button to save.
Note: These table cells can be used for entering tariffs by weight, pieces, volume, time and value.

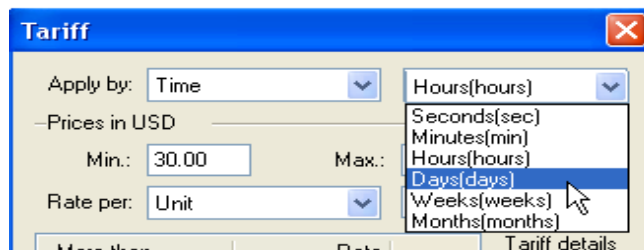
Pieces: When setting the tariff by Pieces, the weight unit dropdown is not available because it is not needed.

Volume: This gives you the option to set the units by Cubic meters, Cubic inches, Cubic centimeters, or by Liter.

Time: This gives you the option to charge by time (Hours, Minutes,

Seconds, Days, Weeks, or Months).

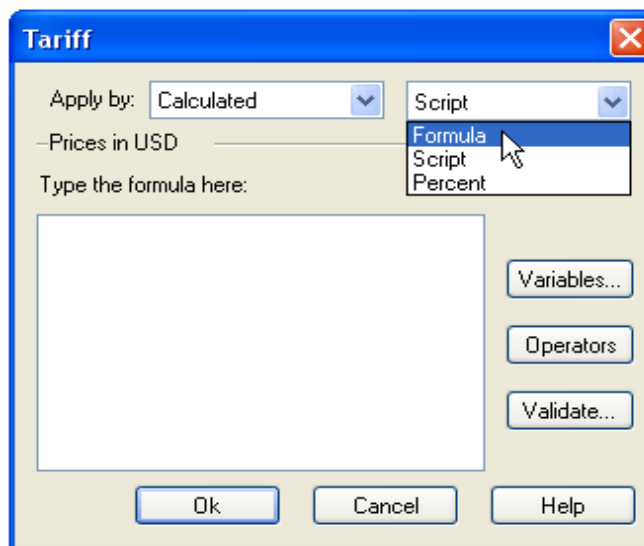
The Time is calculated based on the time the cargo arrived (based on the Warehouse Receipt time), and the time the cargo left the warehouse (via Cargo Release or Shipment).



Value: The value is used to charge based on the value of the merchandise and it can be used to calculate the amount of the insurance on the cargo. When selecting “Value”, the unit dropdown is not available.



Calculated: This gives you the option to calculate the tariff based on a script or a formula:



The “**Formula**” option gives you buttons for Variables, Operators, and Validate.

The following example shows how to calculate a storage charge of 0.02 per day per pound.

First, click the Variables button to set the variables for Time (T) to “Days” and set Weight (W) to “Pounds”.

The Variables screen shows a list of variables names and codes. These are the variables you will use in the script or formula and the measurement units that they will come in.

Name	Variable	Measurement Unit
Pieces	P	
Chargeable Weight	W	Kilogram(Kg)
Gross Weight	G	Kilogram(Kg)
Volume	V	Cubic meter(m³)
Value	A	
Time	T	Hours(hours)
Volume Weight	L	Volume Kilo(VKg)

Buttons: OK, Cancel, Help

Enter the formula in the blank field using the Variables and Operators:

Apply by: Calculated Formula

Prices in USD

Type the formula here:

T*W*0.02

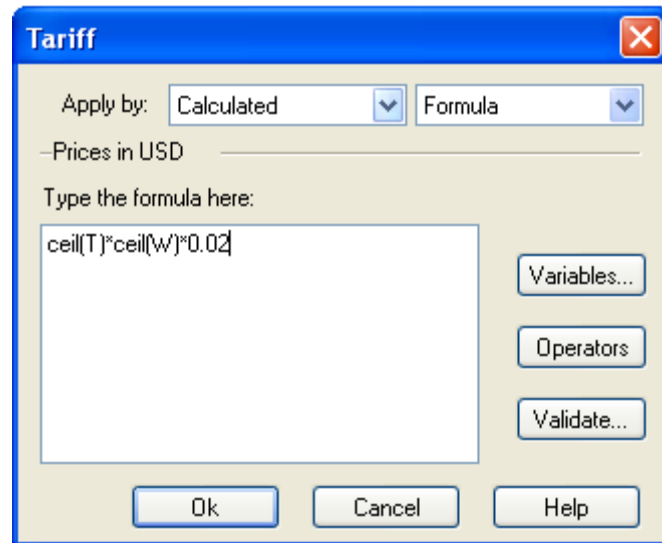
Buttons: Variables..., Operators, Validate...

Buttons: Ok, Cancel, Help

Click the “Operators” button to insert operator symbols to multiply, divide, etc.

Click the OK button when you are done. You will be returned to the Tariff dialog box.

To create a formula that rounds the days and pounds up to the next integer (whole number), use the “ceiling” function:



The 'Tariff' dialog box is shown with the following details:

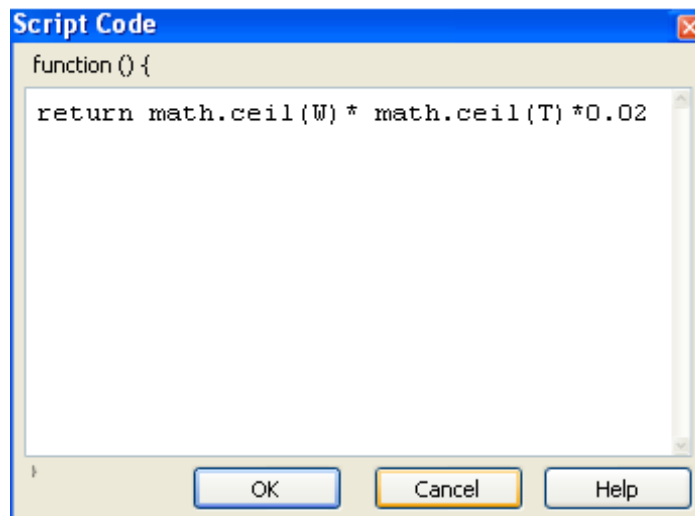
- Title Bar:** Tariff
- Apply by:** Calculated (dropdown)
- Formula:** Formula (dropdown)
- Prices in USD:** (text field)
- Type the formula here:** `ceil(T)*ceil(W)*0.02`
- Buttons:** Variables..., Operators, Validate..., Ok, Cancel, Help

To validate the formula, click the Validate button and enter numbers to test it.

The option to calculate by “**Script**” shows a screen with a button for variables (weight, volume, etc.), a button to edit code, and a validation button.

Click the “Edit Code” button to open a screen to type in JavaScript code. This screen is used to type the body of the JavaScript function to calculate the price. The function brackets are already included in the header and the closing bracket is included at the bottom of the screen. The “return” statement is required to pass the calculated price back to the Magaya system.

This code example shows the storage charge that rounds up to the next number:



The 'Script Code' dialog box is shown with the following details:

- Title Bar:** Script Code
- Code:**

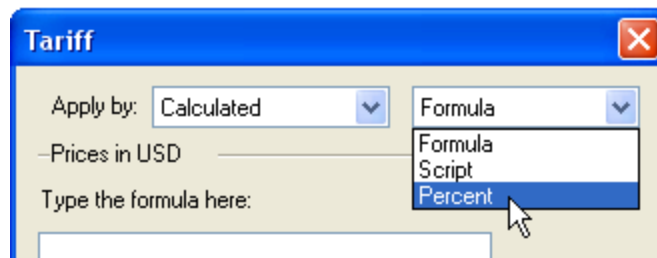
```
function () {  
    return math.ceil(W) * math.ceil(T) * 0.02  
}
```
- Buttons:** OK, Cancel, Help

In the script code screen, you can call functions by name if you have functions already created in the Maintenance > Configuration > JavaScript Code library.

This is covered in detail in the “Configuration Menu” chapter of the *Magaya Software Customization Manual*. Validate the code to check for errors. Save it.

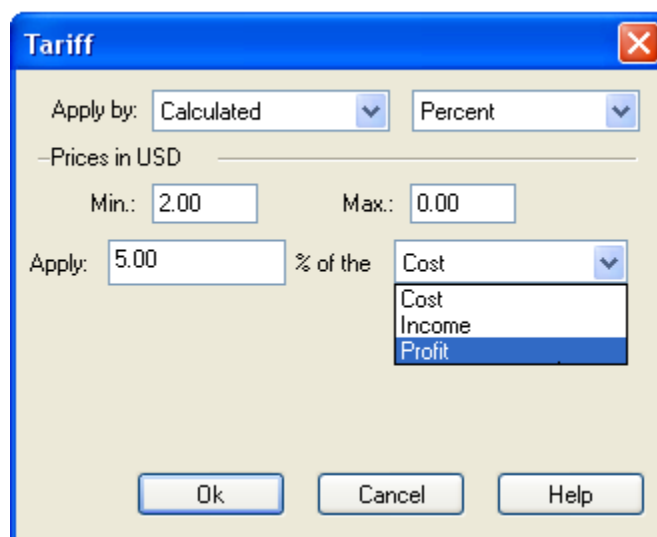
Tariff by Percent:

To calculate by percent, select the “Percent” option.



Enter a minimum and maximum (optional), enter the percent amount such as 5% and how to apply it: to the cost, income or profit.

This percent option can calculate a percent for a commission. If it is used in House Shipment, it will only calculate the commission for that House, not the cost of Master prorated.



Click OK to save and close this screen and the previous one.

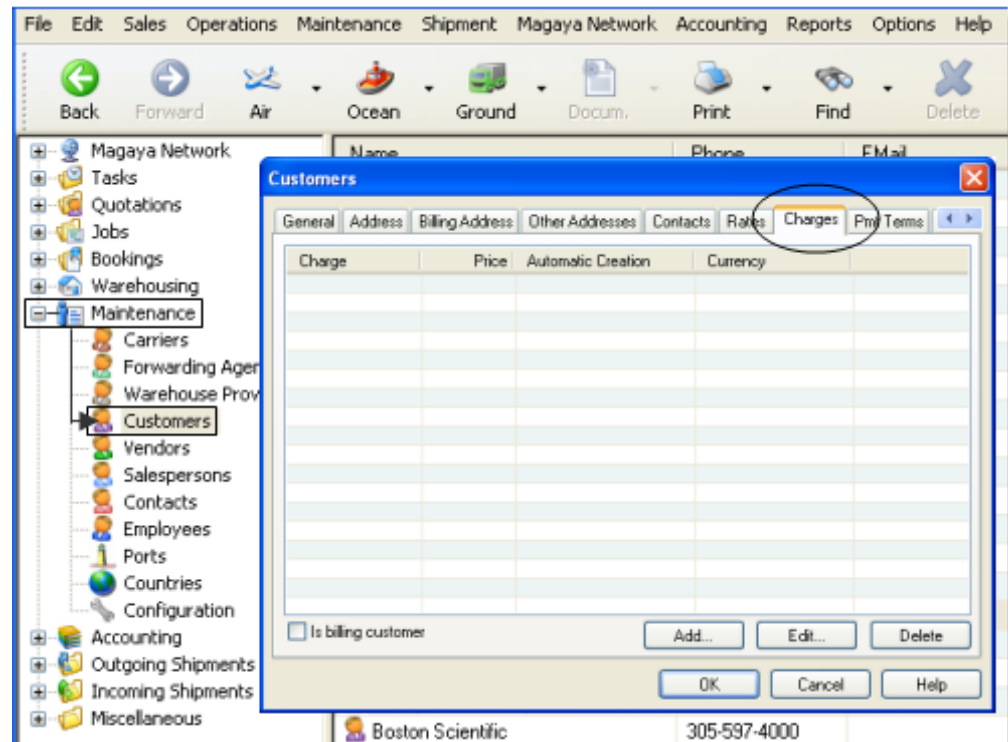
Note: The percent option was introduced in Magaya software version 9.8. It was designed to make it easier to set the percent of a tariff. If your system has existing tariffs that calculate a percent with a formula or script, your system will continue to use those.

Result: Now the tariff is ready for use in transactions.

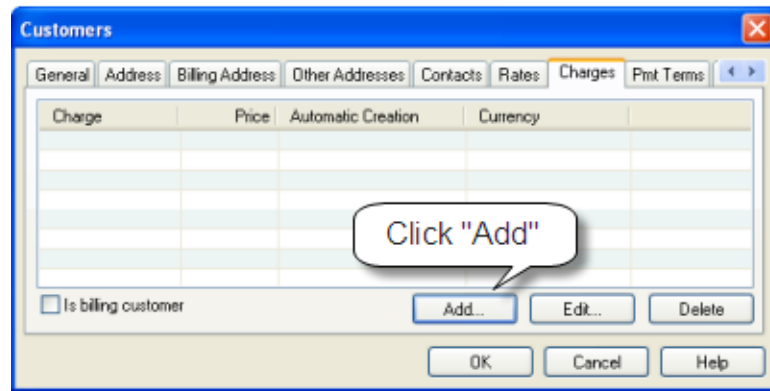
How to Customize a Tariff

You can customize a tariff for a specific client (customer).

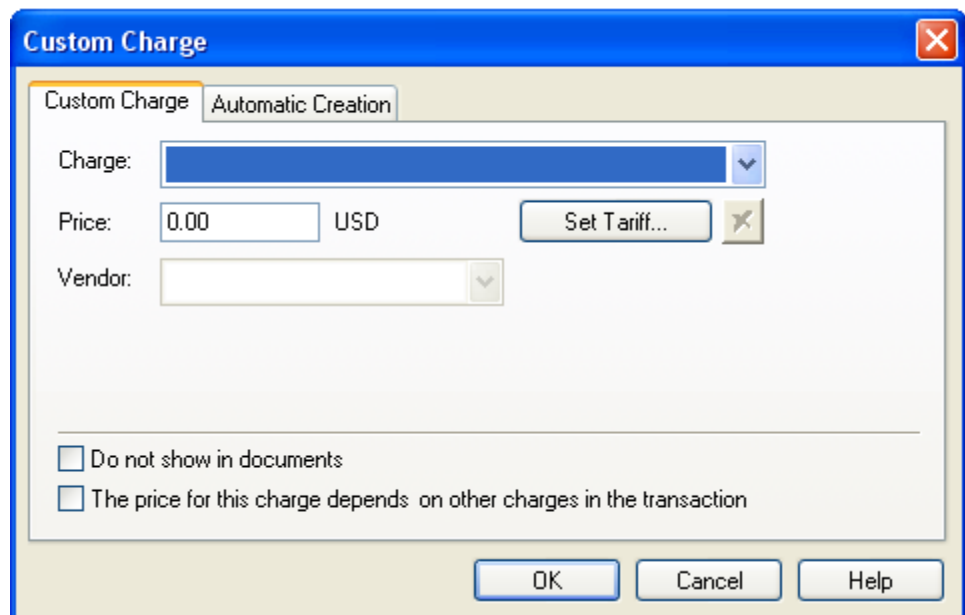
- 1) Go to the Maintenance folder > Customers.
- 2) Select the customer and open their profile. Then click on the Charges tab.



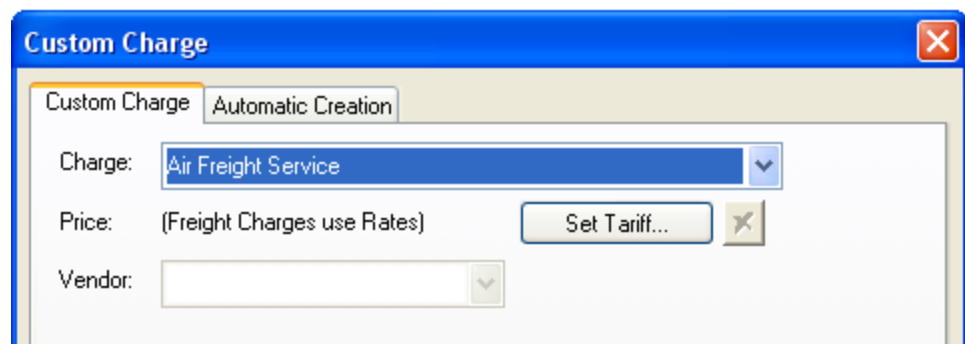
- 3) Click on the Add button.



In the dialog box that opens, set up the custom tariff.



- Select the Charge that you want to customize from the dropdown.
- Enter a price or click the Tariff button. (If you select a freight charge, the Price field will change to a note "Freight Charges Use Rates.")



- If you want to automate this charge, click “Automatic Creation” tab. Select the transactions to automate.
- Click OK when done.

That tariff will now apply to that customer for the transactions you specified.

Rates

Rates Overview

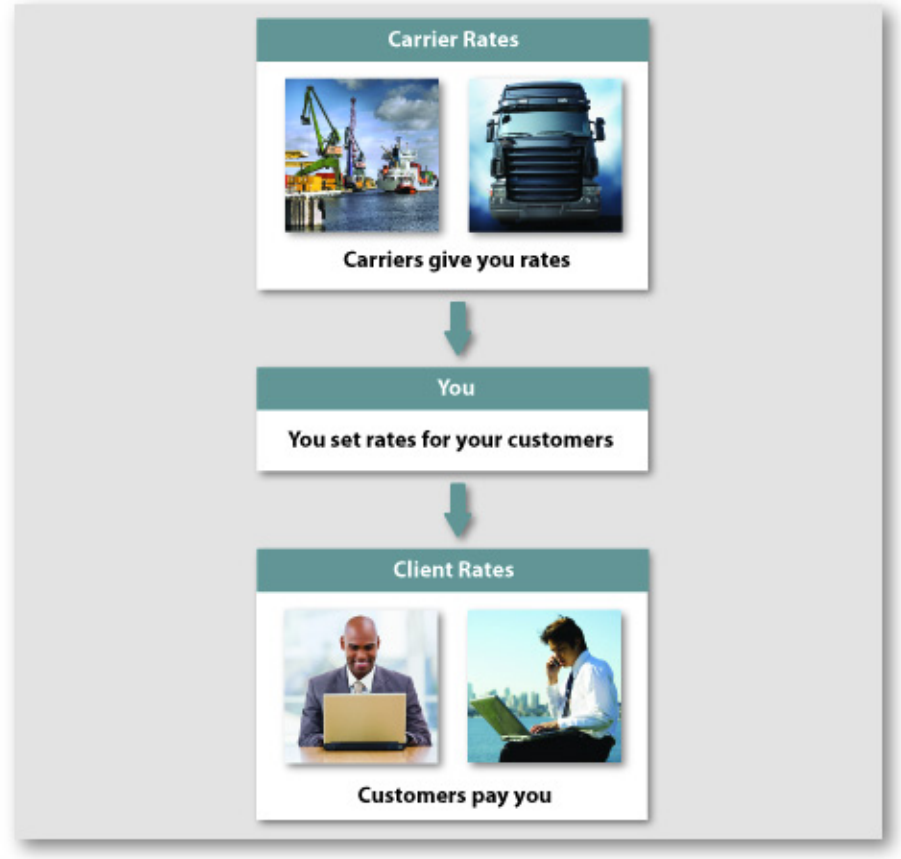
Rates are used to calculate prices for services related to the movement of cargo. They are calculated based on the measurement information plus the mode of transportation, and the origin and destination information for the cargo.

The different types of rates are: standard rates for all your customers (clients), rates from your carriers, and customized rates applied to individual customers:

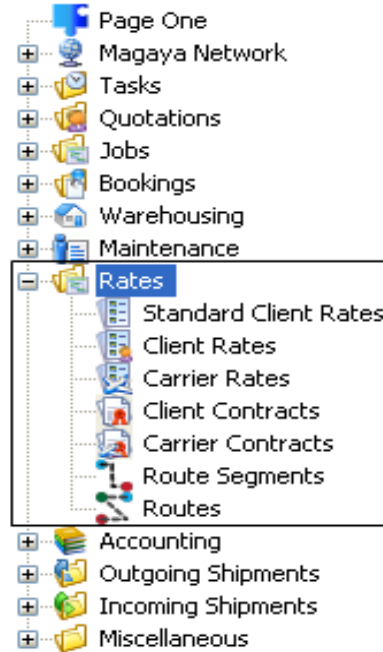
- **Carrier Rates:** These are your purchasing rates for freight services, how much you pay the carrier.
- **Standard Client Rates:** These are your standard rates for all customers. You can make these available on Magaya LiveTrack for your customers to view.

- **Client Rates:** This groups all the rates for all your customers (clients) in one place. You can customize multiple and single rates for customers using a wizard that is available in the Client Rates folder.

Entering Rates



The Rates folder also contains contracts. See the sections on contracts for details. The next section will focus on setting up carrier rates.



Carrier Rates

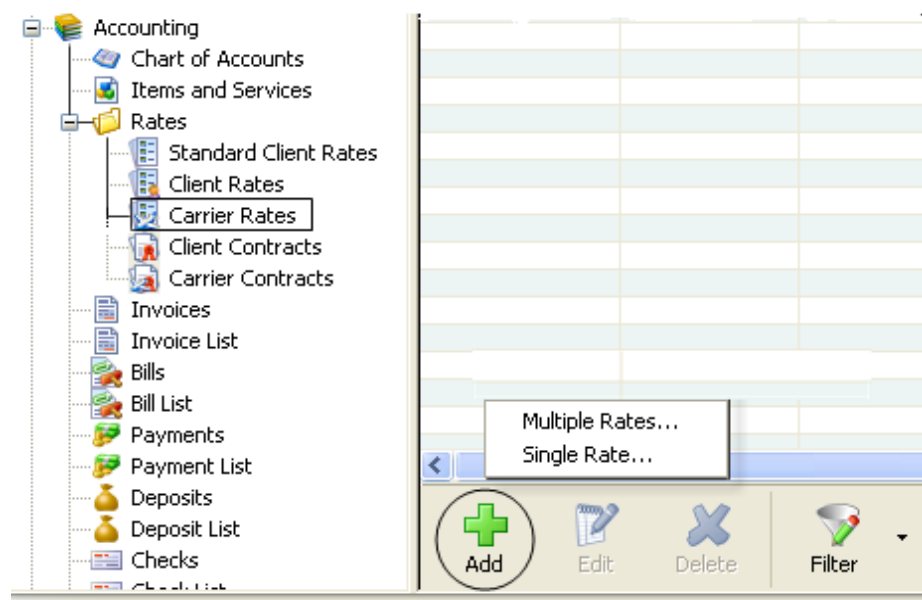
Set Up Carrier Rates

Carrier Rates are your purchasing rates for freight services (how much you pay the carrier). For each carrier that you use, add the rate information they give you in your Magaya system. This rate will be used as the Cost in freight charges.

To set up the carrier rates, follow these steps.

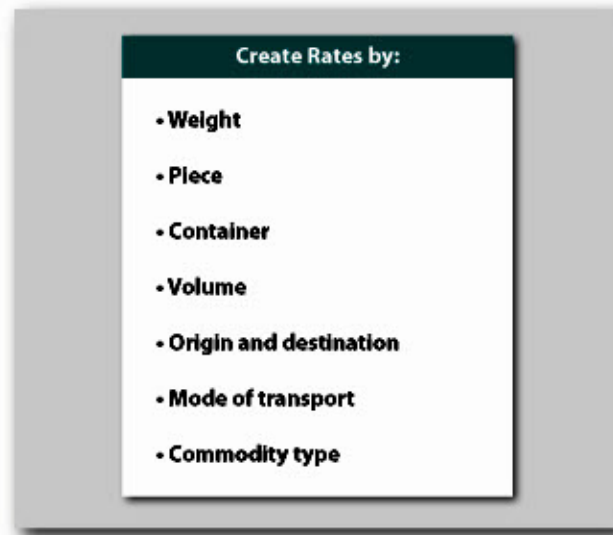
- Go to the Accounting folder, expand the Rates subfolder, and click on Carrier Rates.

- Click on the Add button and select the type of rate you want to enter: A single rate or multiple ones:



This example will illustrate **how to add a single rate**. Multiple rates is explained in the section “Add Rates to a Carrier Contract.” The single rate will apply to one carrier for one transport mode and only for one origin/destination.

In Magaya software there are many options for creating rates:



A dialog box opens. The following example shows an ocean rate:

The 'Rate' dialog box has three tabs: General, Contract, and Notes. The General tab is active. It contains the following fields:

- Carrier: Tropical Shipping
- Freight Service Class: Ocean Freight Service Cost
- Description/Commodity: Electronics
- Origin: Miami
- Destination: Freeport, Grand B
- Method: Vessel, Containerized
- Transit Time: 0 days
- Apply by: Container

Below these fields, there is a section for 'Prices in USD' with 'Min.: 0.00' and 'Max.: 0.00'. The 'Rate per:' field is set to 'Unit' with a value of '1.00' and the unit 'lb'.

A table lists container types and their rates:

Container	Rate
20 Ft. Standard Container	800.000
40 Ft. Standard Container	1200.000

Buttons for 'Add' and 'Remove' are located to the right of the table. At the bottom of the dialog are buttons for 'OK', 'Cancel', and 'Help', along with a 'MAGAYA TIP' button.

- On the General tab, select the carrier (or add it if it is not in the list).
- Select the freight class service. This pulls from the Items and Services of type “Freight” and “Other Freight”.
- Enter a description (optional). Use this for Commodities that you want to classify by type such as electronics. To enter a new commodity, click on the plus sign in the dropdown menu, enter the information and click OK. Commodity Types can also be entered in Maintenance > Configuration > Commodity Types. The Commodity Type can also be specified when you are entering Inventory Item Definitions: Select the Commodity field on the General tab.
- Select the origin and destination cities for this rate (from the ports list).
- Select the method (mode of transportation) such as “Vessel, Containerized”.
- Transit Time: Enter the number of days of the voyage. (This information can be added to the Query Rates screen.)

- Select how to apply the rate: This example uses “Container”. When you make this selection, the screen will change depending on what you select.
- Minimum and Maximum prices: Set this option as needed.
- Rate per: Set the rate per unit or per range. **Rates per Unit** such as pounds will multiply the rate by the unit.

If the unit is 1 pound and the price is \$1 per pound for weights between 1 and 50 pounds, to ship 35 pounds will be calculated as 1 x 35 to equal \$35.

If the price is 0.80 per pound for shipments weighing between 51 and 100 pounds, the price for a 70-pound shipment will be calculated as 0.80 x 70 = \$56. The price for 90 pounds will be calculated as 0.80 x 90 = \$72.

If you set the unit to equal 100 pounds, and the price of \$10 per each unit, then shipping 400 pounds will be calculated as 4 units of 100, which will cost \$40.

Prices in USD

Min.: Max.:

Rate per: lb

More than	Rate
1.00	1.00000
51.00	0.80000
101.00	0.70000

Select **Rate per Range**: Enter the ranges such as 1 to 20 cubic feet, then 21 to 50 cubic feet, etc. For example, a range is set for \$10 for any measurement between 1 to 20 cubic feet; your shipment is 15 cubic feet, the price is calculated at \$10. If a shipment is 11 cubic feet, the price is still \$10 because it is in the range of 1 through 20.

Prices in USD

Min.: Max.:

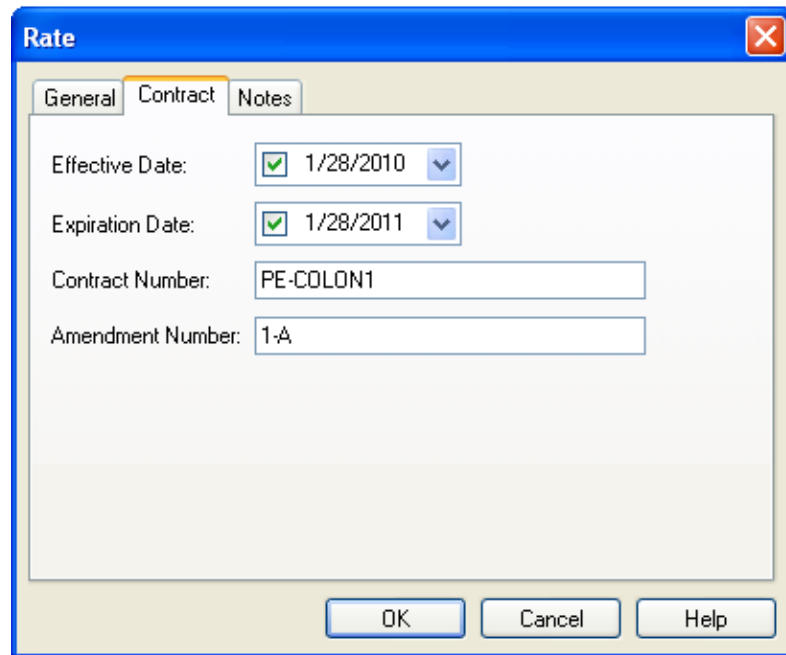
Rate per:

More than	Rate
1.00	10.00000
21.00	9.00000

Rates per range are useful for Roll On Roll Off (RORO) rates. To set a RORO rate, apply the rate by volume (cubic feet) and select Rate per Range and enter your numbers.

- Click the Add button to add a rate. This will activate a line in the Prices table. Select a container (this example shows a 20-foot and a 40-foot standard container) in the Prices table, and enter the rate for each in the fields. You can add as many as you need.

If you have a contract with a carrier, click on the Contract tab:



The screenshot shows a 'Rate' dialog box with three tabs: 'General', 'Contract', and 'Notes'. The 'Contract' tab is selected. It contains the following fields:

- Effective Date: A date picker showing 1/28/2010 with a green checkmark icon to its left.
- Expiration Date: A date picker showing 1/28/2011 with a green checkmark icon to its left.
- Contract Number: A text box containing 'PE-COLON1'.
- Amendment Number: A text box containing '1-A'.

At the bottom of the dialog box are three buttons: 'OK', 'Cancel', and 'Help'.

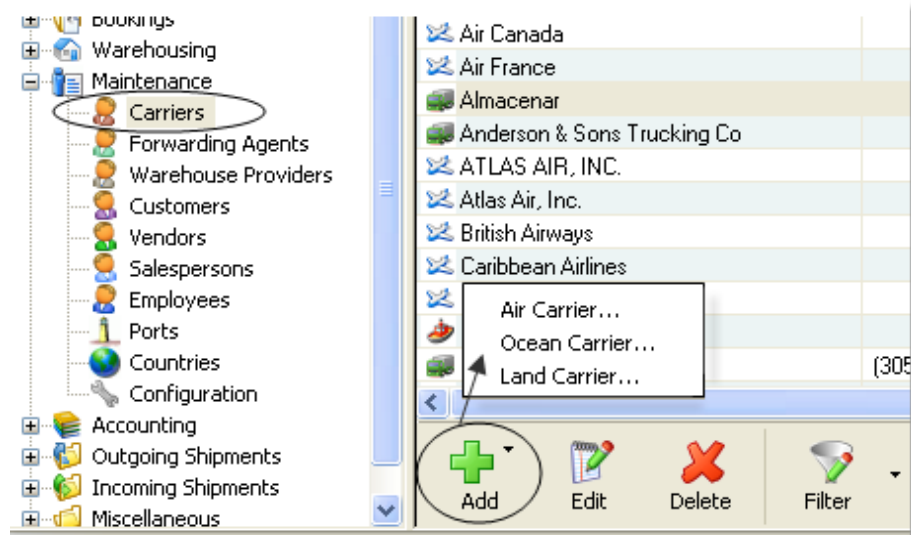
- Enter the date the contract expires. When the contract expires, the rate will no longer be used.
- Enter the contract number.

If you want to add any notes, click on the Notes tab and enter them.

Click the OK button when done.

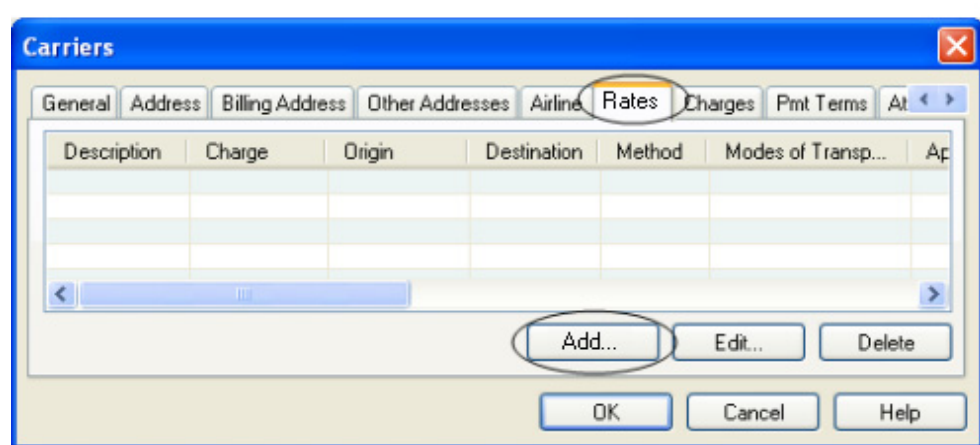
Result: The rate now displays in the Carrier Rates list and is available to use for costs in shipments.

Note: You can also set up carrier rates in the Maintenance folder by selecting the carrier (if they are in the list already). To create a new carrier profile, click on the Add button and select the type of carrier:



To edit an existing Carrier rate, double-click on it (or select it and click on the Edit button).

In the dialog box that opens, click the Rates tab. To edit a rate, click on the “Edit” button. To add a new rate, click on the “Add” button.

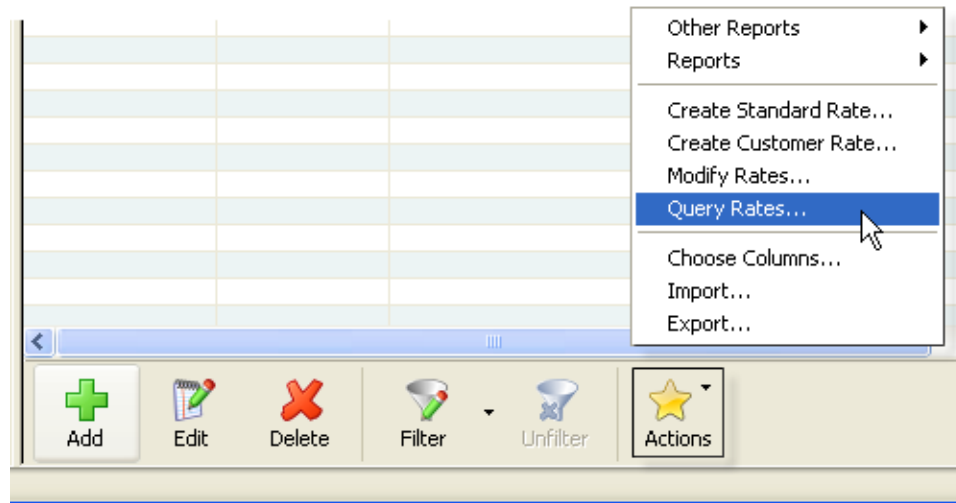


This opens the same dialog box explained above.

You can also edit the rates for an existing carrier by right-clicking on the carrier name in the Carrier List and select “Rates” from the pop-up menu. In the screen that opens, click on the Add button. Use the wizard to enter the information.

Actions in the Carrier Rates List

Click on the Actions button in the Carrier Rates list to access the following options:



- **Reports:** Use this to create a report of all carrier rates.
- **Other Reports:** Use this to create reports by carrier, charge, origin, etc.

Reports can be sent to carriers by clicking on the Email button in the top toolbar across the top of Magaya Explorer.

- **Create Standard Rate:** Use this to create a selling rate based on the rates your carrier gives you.

Select a rate in the list and click on this option. A dialog box opens. Select a markup type (percent or flat) and enter an optional markup value (how much you will add to the price). For discounts, enter a minus sign and the number. Click the OK button. The Rate dialog box opens. Verify the rate and click OK.

A dialog box titled "Create Standard Rate" with a red X close button in the top right corner. Inside the dialog, the text "Resell Freight Class: Air Freight Service" is displayed. Below this, there are two fields: "Markup Type:" with a dropdown menu showing "Percent" and a small downward arrow, and "Markup Value:" with a text input field containing the number "0". At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".

- **Create a Customer Rate:** Use this to create an individual rate to apply to one specific customer. Click on a rate in the list and select this option. A dialog box opens.

Select the markup type (percent or flat), enter the markup value (optional), and select the customer this rate applies to. Click the OK button. The Rate dialog box opens, showing you the amount the system just calculated. Verify the rate and click OK. For discounts, enter a minus sign and the number in the Markup Value field.

- **Modify Rates:** Use this to change rates. See details in the section “Modify Rates for Your Customers”.
- **Query Rates:** Use this to perform a query on carrier rates. Enter the information you need for the query in the dialog box that opens. See details on how to use this screen in the section “Query Rates”.
- **Choose Columns:** Rearrange, add, or remove columns from the list view.
- **Import or Export data** in XML or CSV formats in or out of your Magaya database.

Query Rates

Query Rates

Use the “Query Rates” button to open the query screen when you need to look up rates for carriers or to query selling rates. The button can be found on the

Rates dialog box for Standard Client Rates and Client Rates. The query dialog box is also available from the Actions button in Quotations and in the Rates folder for Carrier Rates, Standard Rates, and Client Rates.

To query carrier rates, go to the Carrier Rates folder. To query selling rates, go to the Client Rates folder or the Standard Rates folder. The fields in the Selling Rates query dialog box are the same as in the Query Carrier Rates dialog box.

When the Query Rates dialog box is opened from the Actions button, it can remain open while you move to other screens in your Magaya system. When you close the screen, the information you entered will remain available to reuse or change.

Add multiple types of freight service class by clicking the button with the three dots that is next to the Freight Service Class dropdown. In the dialog box, check the types to include in the query.

The date field can be used to query future rates.

If you want to query other rates or charges such as documentation, you can add them to the query by using the “Select” button for “Other Charges” and see all

the rates. The query of other charges pulls from the information in your Accounting folder in your Magaya system.

The screenshot shows a software interface for querying rates. A main window has fields for 'Method:', 'Destination:', and 'Other Charges:'. The 'Other Charges:' field is highlighted with a 'Select...' button. An arrow points from this button to a secondary dialog box titled 'Products and Services list'. This dialog box contains a table with three columns: 'Code', 'Description', and 'Account Na'. It lists various services with checkboxes next to them. At the bottom of the dialog, it says '22 of 83 elements'. On the right side of the dialog are buttons for 'OK', 'Cancel', 'View...', 'Filter...', 'Unfilter', and 'Help'.

Code	Description	Account Na
<input type="checkbox"/> EQURENTAL	Equipment rental cost	Equipment R
<input type="checkbox"/> CUSBROACO...	Customs Broker Cost	Custom Brok
<input type="checkbox"/> PALL-COST	Palletizing Cost	Cost of Servi
<input type="checkbox"/> CTG-COST	Cartage Cost	Cost of Servi
<input type="checkbox"/> CRT-COST	Crating Cost	Cost of Servi
<input type="checkbox"/> RPK-COST	Repacking Cost	Cost of Servi
<input type="checkbox"/> HAN-COST	Handling Cost	Cost of Servi
<input type="checkbox"/> STO-COST	Storage Cost	Cost of Servi
<input type="checkbox"/> WAT-EXP	Water Expense	Utilities Expe
<input type="checkbox"/> ELEC-EXP	Electricity Expense	Utilities Expe
<input type="checkbox"/> TEL-EXP	Telephone Expense	Telephone E
<input type="checkbox"/> EQ-RENT	Equipment Rent	Equipment R
<input type="checkbox"/> WH-RENT	Warehouse Rent	Rent Expens
<input type="checkbox"/> OFC-RENT	Office Rent	Rent Expens

Select the origin and destination information and method (mode) of transport. These fields are required.

Enter as much information about the cargo as needed.

The screenshot shows a 'Cargo Information' form. It has three rows of input fields: 'Pieces:' with a value of '1', 'Weight:' with '0.00', and 'Volume:' with '0.00'. Each row has a unit dropdown menu (Pound(lb) and Cubic foot(ft³) respectively). There are also checkboxes for 'Containerized' and 'Commodity Type:' with a dropdown menu. A 'Find' button is located at the bottom right of the form.

Click "Find" to generate a list of rates that match the criteria you enter.

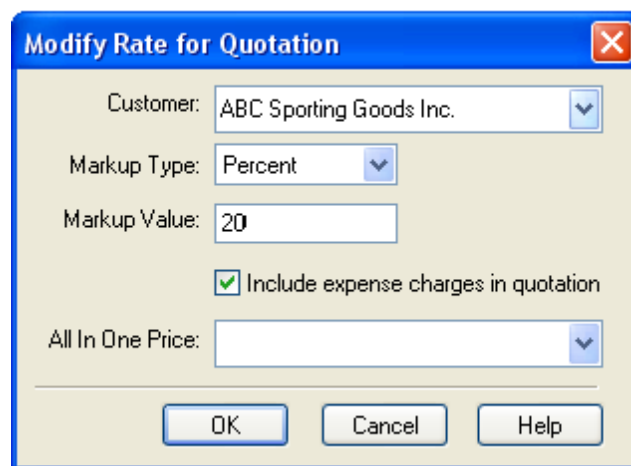
Prices in USD			
Description	Rate	Amount	Entity
<input checked="" type="checkbox"/> Ocean Freight Service Cost	125.00000	125.00	SUD HAMBURG/COLUMBUS LINE
<input type="checkbox"/> Ocean Freight Service Cost	145.00000	145.00	Crown Shipping

The best rate will be checkmarked in the results list. You can add columns to the list by right-clicking on a result. In the “Choose Columns” dialog box, click the “Add Columns” button to access more choices such as the Transit Time under Rates.

Create a Quotation from the Query:

To create a Quotation from the selling rate dialog box, click the “Create Quotation” button.

When creating a Quote from the Carriers Query rate screen, you can specify if you want to include the expense charge in the quote’s Charges. You also have the option to choose to summarize the income charges in an “All in One” charge. This will add whatever fee you select in the dropdown.



The Quotation dialog box will open with all the rate query information filled in automatically. Make any changes or add information in the dialog box to create the document. Email or print the document.

Standard Client Rates

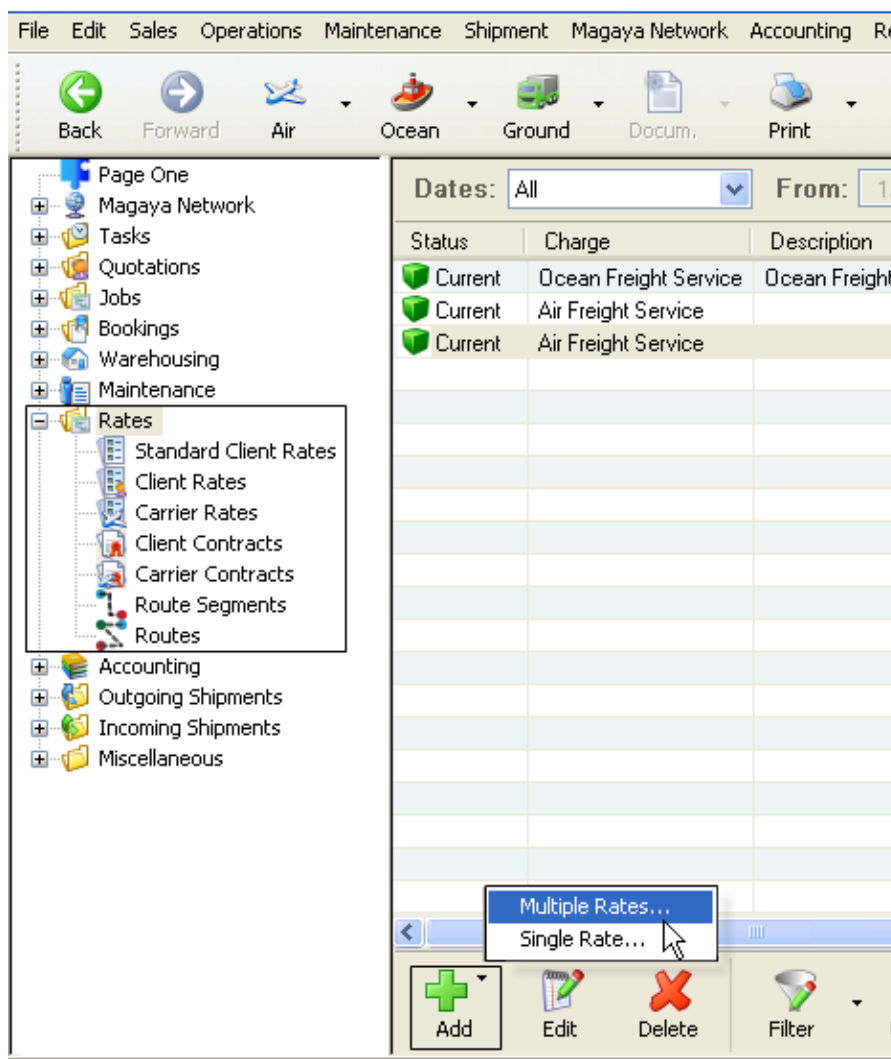
Standard Client Rates are the rates you charge all your customers.

Steps to Set Up Standard Client Rates

To set up Standard Client Rates:

- 1) Go to the Rates folder and click “Standard Client Rates”.

2) Click the Add button and select Single or Multiple Rates from the pop-up menu:



This example shows you **how to enter a single rate**. For details on Multiple Rates, see the section “Client Contracts.” When you use the “Single Rate” option, the system will create one rate for a service such as priority freight or a fuel surcharge that will apply for all customers who send freight to the origin and destination you assign in the Rate dialog box. Let’s look at the Rate dialog box.

A dialog box opens with three tabs:

Rate

General Contract Notes

Freight Service Class: Air Freight Service

Description/Commodity: Electronics

Origin: Miami Destination: Bogota

Method: Air Transit Time: 0 days

Apply by: Weight Pound(lb)

☐ Use Gross Weight instead of Chargeable Weight

Prices in USD

Min.: 53.00 Max.: 0.00

Rate per: Unit 1.00 lb

More than	Rate
1.00	0.90100
100.00	0.69960
1,100.00	0.58300

Add Remove

Query Carrier Rates...

MAGAYA TIP OK Cancel Help

- On the General tab, select the Freight Service Class from the dropdown menu such as “Air Freight Service”.
- Enter a description (optional). Use this for Commodities that you want to classify by type such as electronics. To enter a new commodity, click on the plus sign in the dropdown menu, enter the information and click OK. Commodity Types can also be entered in Maintenance > Configuration > Commodity Types. The Commodity Type can also be specified when you are entering Inventory Item Definitions: Select the Commodity field on the General tab.
- Select the origin and destination cities for this rate.
- Select the method (mode of transportation) such as Air.
- Transit Time: Enter the number of days of the voyage. (This information can be added to the Query Rates screen.)
- Select how you will apply the rate: by the piece, by weight, volume, container, or by a calculated rate. When you make this selection, the drop-

down menu next to it will change depending on what you select. You can set the units for weight such as pounds and for volume such as cubic feet. For more details, see the section on “Tariffs”.

- Use Gross Weight instead of Volumetric Weight in air and ground rates. (Previous versions of Magaya software before v8.5 required a formula for this.)
- Enter a minimum and/or a maximum rate as needed.
- Click the Add button to add a rate. This will activate the next line in the rate table. Click on the table cell under “More than” and “Rate” to edit the table cells. The example shows the first table cell with a rate of 2.50 for one pound or more. The next table cell shows 2.00 for weight over 100 pounds.
- To query a rate, click on the “Query Carrier Rates” button. This will query previously created Carrier Rates. This is useful when you are creating your standard client rate; you can look up your purchasing rates for comparison. See the section “Query Rates” for details.

If you have a contract with the client, click on the Contract tab in the Rate dialog box and enter the dates and contract number.

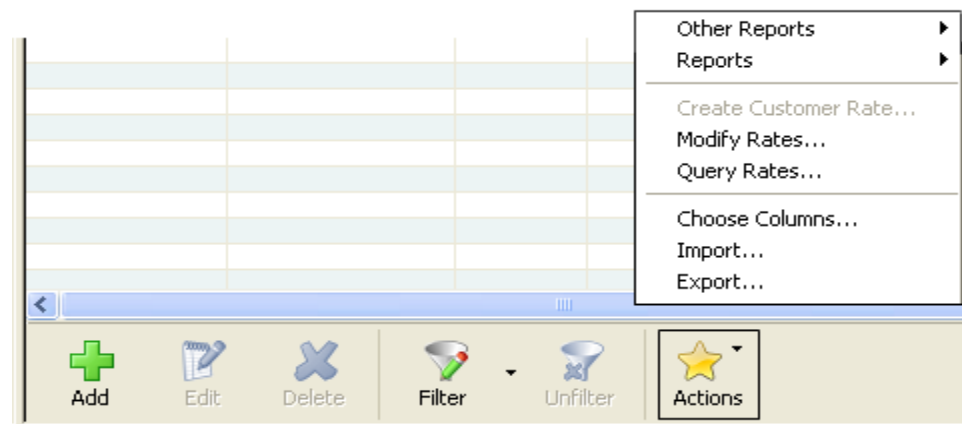
If you want to add any notes, click on the Notes tab and enter them.

Click the OK button when done.

Result: The rate now displays in the list and is available to use in shipments.

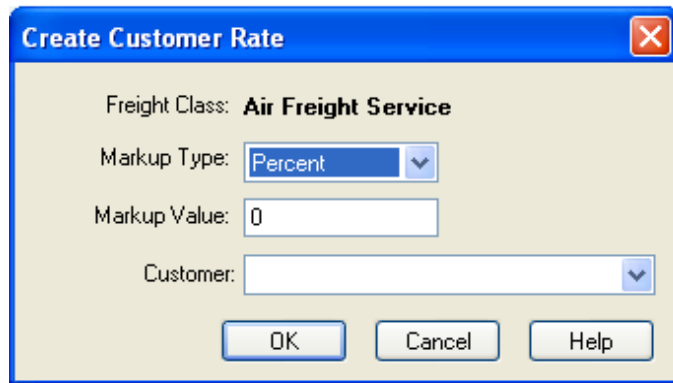
Actions in the Standard Client Rates List

Click on the Actions button to access the following options:



- **Reports:** Create a report of all Standard Client Rates

- **Other Reports:** Create reports by description, charge, destination, etc.
Reports can be sent to customers by clicking on the Email button in the top toolbar across the top of Magaya Explorer.
- **To create a Customer Rate,** click on a rate in the list and select the option “Create Customer Rate” from the Actions button. This sets a rate that applies to one customer. A dialog box opens:

A screenshot of a Windows-style dialog box titled "Create Customer Rate". The dialog has a blue title bar with a red close button. The main area is light beige. It contains four labels with corresponding input fields: "Freight Class:" with the text "Air Freight Service"; "Markup Type:" with a dropdown menu showing "Percent"; "Markup Value:" with a text box containing "0"; and "Customer:" with a dropdown menu. At the bottom, there are three buttons: "OK", "Cancel", and "Help".

Select the markup type (percent or flat), enter the markup value, and select the customer that this rate applies to. Click the OK button. The Rate dialog box opens. Verify the rate and click OK. This will apply the markup to that one customer.

- **Modify Rates:** Use this to change rates. See details in the section “Modify Rates for Your Customers”. The rate modification will apply to all clients. If you want to modify a rate for only one client, use the Actions button in Client Rates.
- **Query Rates:** See the section “Query Rates”.
- **Choose Columns:** Use this to rearrange columns and add or delete columns in the rates list.
- **Import or Export** data in XML or CSV formats in and out of your Magaya database.

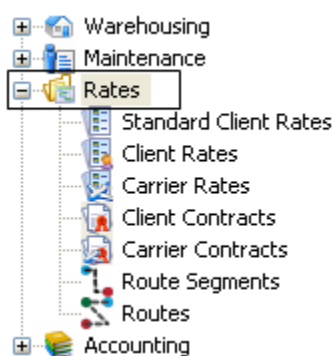
Custom Rates

Create Customized Rates

You can customize a rate for a client by using a wizard or by opening the Rates dialog box in the Customer's profile. The rate can be based on the standard one created for all customers and then changed for a specific customer. This custom rate will override any standard rate you set up in your Magaya system for that customer.

The wizard is available from two places in Magaya Explorer: Right-click on the customer name in the Customer List and select "Rates" from the pop-up menu. In the list that opens, click on the Add button to use the wizard.

You can also access the wizard by selecting "Client Rates" under the Rates subfolder in Accounting:

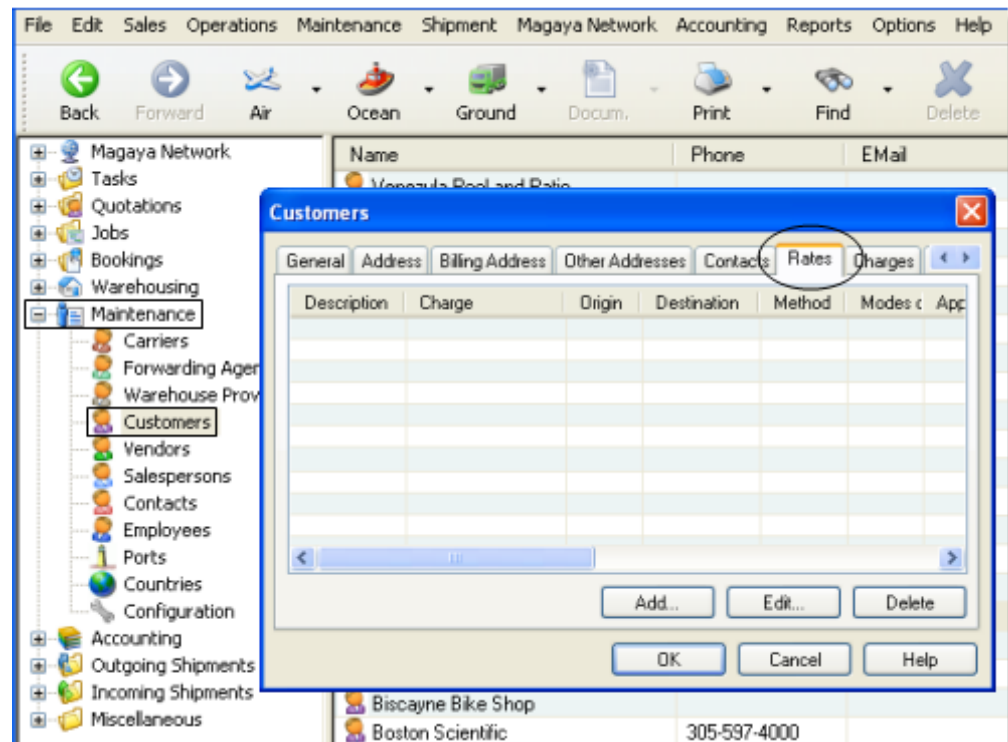


For details on using the wizard, see the section "Modify Rates for Your Customers."

The following example shows you how to customize a rate by using the Rates dialog box in the Customer's profile:

- 1) Go to the Maintenance folder.
- 2) Click on Customers.

- 3) In the Customer profile dialog box, click on the Rates tab.



- 4) Click on the Add button in the Rates tab. A dialog box opens.

Rate

General Contract Notes

Freight Service Class: Ocean Freight Service

Description/Commodity:

Origin: Miami Destination: Maracaibo

Method: Vessel Transit Time: 0 days

Apply by: Container

Prices in USD

Min.: 50.00 Max.: 0.00

Rate per: Unit 1.00 lb

More than	Rate
1.00	4.00
100.00	3.50

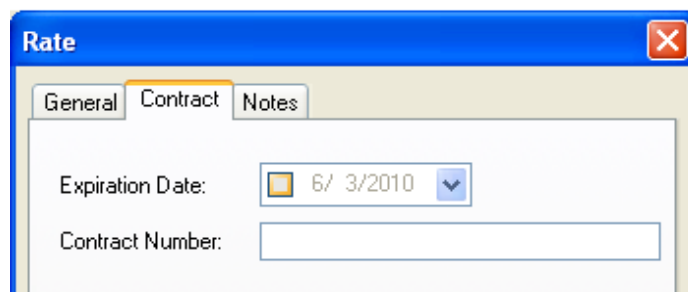
Query Carrier Rates...

MAGAYA TIP

OK Cancel Help

- On the General tab, select the carrier.
- Select the freight class service. This pulls from the Items and Services of type “Freight” and “Other Freight”.
- Enter a description (optional). Use this for Commodities that you want to classify by type such as electronics. To enter a new commodity, click on the plus sign in the dropdown menu, enter the information and click OK. Commodity Types can also be entered in Maintenance > Configuration > Commodity Types. The Commodity Type can also be specified when you are entering Inventory Item Definitions: Select the Commodity field on the General tab.
- Select the origin and destination cities for this rate (from the ports list).
- Select the method (mode of transportation) such as “Vessel, Containerized”.

- Transit Time: Enter the number of days of the voyage. (This information can be added to the Query Rates screen.)
 - Select how you will apply the rate. The screen will change depending on what you select.
 - Click the Add button to add a rate. This will activate a line in the Prices table. Enter information for each in the fields such as weight and rate. For example, you can charge by weight to calculate the prices. If cargo weighs more 50 pounds, type on 50 and the rate. Add the next one as 100 pounds and the rate. You can add as many as you need. This rate shows a container, the type of container and its rate. See the section on “Tariffs” for more details on using this table.
- 5) Click on the Contracts tab if you have a contract number and expiration date.



The screenshot shows a software window titled "Rate" with a blue header bar and a red close button. Inside, there are three tabs: "General", "Contract", and "Notes". The "Contract" tab is selected and highlighted. Below the tabs, there are two input fields: "Expiration Date:" with a calendar icon and a dropdown menu showing "6/ 3/2010", and "Contract Number:" with an empty text box.

- 6) Click on the Notes tab to enter any notes as needed.
- 7) Click the OK button to save settings when you are done.

Result: This customized rate is now ready to be used. Your customers with access to Magaya LiveTrack can view the rates online.

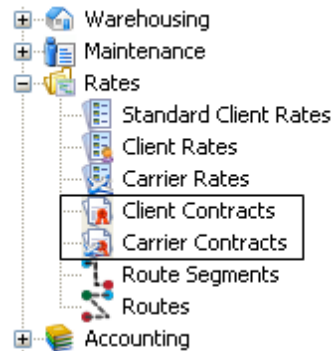
Carrier Contracts

Managing Contracts

When you get a contract from a carrier or you want to create a contract with a customer, you can enter the rates for those contracts in your Magaya system and update them in groups.

Then the rates are available to use in shipments and other transactions, saving time since they do not need to be entered each time.

The contracts feature is an easy way to create rates and group them in your Magaya system. You can find the contracts in the Accounting folder:



The **Carrier Contracts** is the place in the Magaya system that handles your purchasing rates (your cost to purchase carrier services). This is where you enter the rates that the carrier gives you.

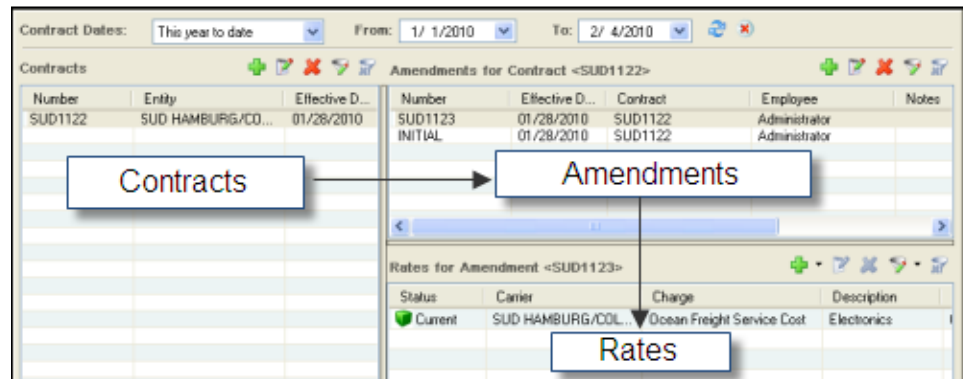
The **Client Contracts** are used to handle the client rates, which are used to calculate the selling prices.



Add a New Carrier Contract

When you get a new contract from a carrier for the first time, use this method to enter the contract into your Magaya system. After you enter the contract details, then enter the rate information for that carrier.

- 1) Go to the Accounting folder.
- 2) Expand the Rates subfolder and select "Carrier Contracts". The screen has three sections: Contracts, Amendments, and Rates:



- 3) Start in the Contracts section: click on the Plus sign. In the dialog box that opens, enter the following:

- The contract number.
- The date the contract will become effective.

- The date the contract will expire (the default is one year from today).
- Select the carrier.
- Select the contact - the person who is your contact person. Click on the dropdown to access the Contacts list and make your selection. This field is optional.
- The Employee is the person who is adding the contract into the system. This will be filled in by the system.
- The Division is optional.

To include a copy of the contract as an Attachment here, scan it and attach by clicking on the Attachments tab and clicking on the Add button. Details on attaching via a scanner are explained in the *Magaya Cargo System Operations Manual*.

Add any notes as needed on the Notes tab.

4) Click OK.

The contract is added in the list.

When a new contract is added into the system, the system will create a default amendment called "Initial" and place it in the Amendments list.

To view the original amendment, double-click on "Initial" in the Amendments list to open the dialog box.

Contract Dates: This year to date From: 1/ 1/2010 To: 1/2/2011

Contracts

Number	Entity	Effective Date	Expiration ..
SUD1122	SUD HA...	01/28/2010	01/28/2011

Amendments for Contract <SUD1122>

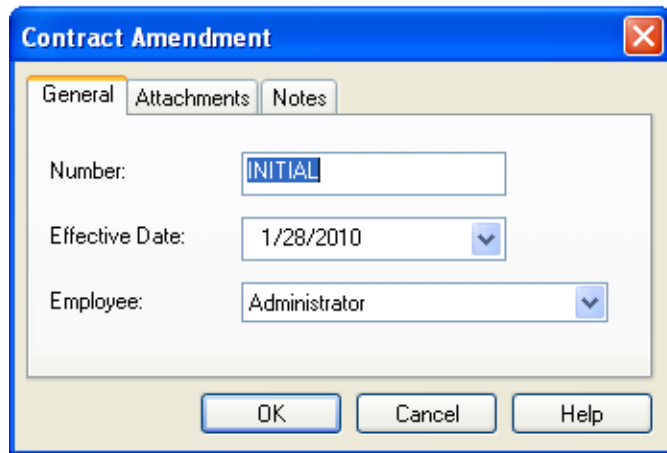
Number	Effective Date	Contract
INITIAL	01/28/2010	SUD1122

Double-click to view

Rates for Amendment <INITIAL>

Status	Carrier	Charge
--------	---------	--------

The Number field is "Initial". This Initial amendment is the original contract, with the same effective date as the original contract and all the details.

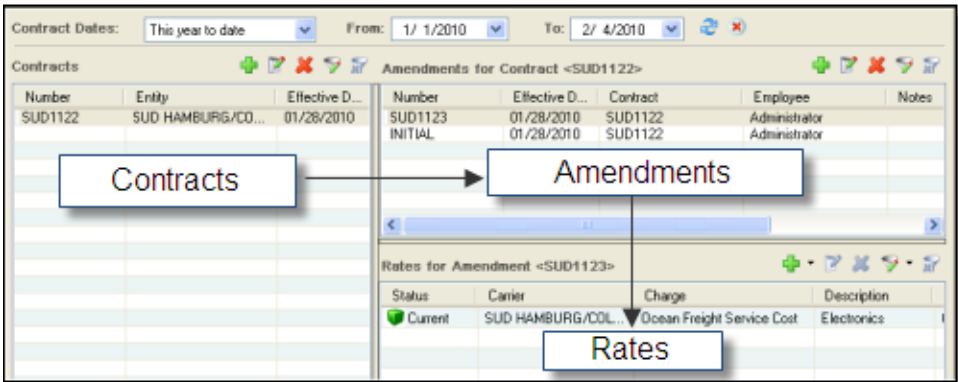


The image shows a 'Contract Amendment' dialog box with a blue title bar and a close button (X) in the top right corner. It has three tabs: 'General' (selected), 'Attachments', and 'Notes'. The 'General' tab contains three fields: 'Number' with the text 'INITIAL', 'Effective Date' with a dropdown menu showing '1/28/2010', and 'Employee' with a dropdown menu showing 'Administrator'. At the bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Help'.

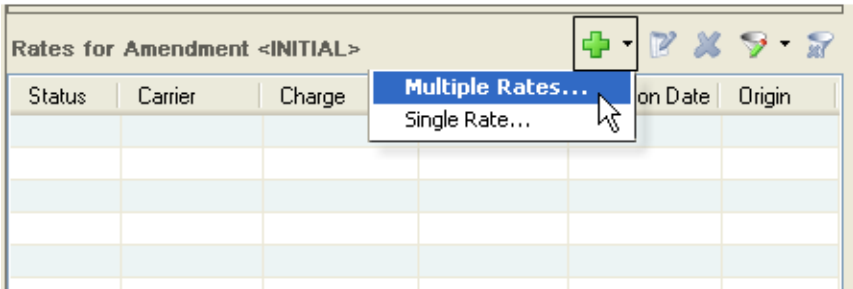
Now that the carrier contract information is entered in your Magaya system, you can enter the rates for this contract.

Add Rates to a Carrier Contract

After you add a contract into your Magaya system, select it to add rates to it.



- 1) In the Rates section, click on arrow on the Plus sign and select from the pop-up menu:



Use the “Multiple Rates” option to create carrier rates in batches for many ports of origin and destination.

Use the “Single Rate” option to open the rates dialog box to enter one rate for one origin/destination. This is explained in the section “Set Up Carrier Rates”.

The following example explains **how to enter multiple rates**.

The wizard that opens contains the following fields:

The carrier name and Effective Date are filled in the first screen of the wizard based on the contract you are working on. These fields are Read-Only. To edit them, go to the Contract itself. You can add an expiration date.

- 2) Select how you want to create rates:
 - **Enter your own rates:** With this option, you enter the rates and the origin and destination from the contract, and the system will create the rates for you for all the origins and destinations you enter. For example, if a carrier sends you one rate for a 20-foot container for a group of ports, use this option.
 - **Copy from similar entities rates:** Use this option to make amendments, for example by origin and destination or by percentage. (This option is shown in the section “Amend Rates based on GRI”.) The advantage of this option is you will not have to recreate the rates

- 4) Click Next to go to the Common Rates screen. In this screen, click on the Add button to open the Rates dialog box.

More than	Rate
1.00	1.00000
50.00	0.80000
100.00	0.70000

- Select the Freight Service Class. This example shows Priority Freight Service Cost.
- The Description/Commodity is optional.
- Select a Method of transportation for this rate.
- Select how you want to apply this rate, for example by weight (in pounds). Click on the dropdowns for other options.
- Transit Time: Enter the number of days of the voyage. (This information can be added to the Query Rates screen.)
- Enter a Minimum and Maximum amount (optional).
- Select a rate by unit or range. Rates per range are useful for Roll On Roll Off (RORO) rates. To set a RORO rate, apply the rate by volume (cubic feet) and click Rate per Range. Then enter the ranges such as 1 to 30 cubic feet, then 31 to 50 cubic feet, etc

- Click on the Add button to enter rates amount per weights.
 - Click the OK button to save the rate information.
- 5) Click Next. The system will generate rates for each port based on the information you entered and display the results:

Add Multiple Rates Wizard

Generation of rates
These are the rates that were generated based on your previous input.
You can remove or edit any of them.

Generated Rates:

Status	Charge	Description	Origin	Destination
Current	Priority Freight		Miami	Tokyo
Current	Priority Freight		Miami	Colon
Current	Priority Freight		Miami	Grand Tu
Current	Priority Freight		Pittsburg	Tokyo
Current	Priority Freight		Pittsburg	Colon
Current	Priority Freight		Pittsburg	Grand Tu
Current	Priority Freight		Port Eve...	Tokyo
Current	Priority Freight		Port Eve...	Colon
Current	Priority Freight		Port Eve...	Grand Tu
Current	Priority Freight		Tampa	Tokyo
Current	Priority Freight		Tampa	Colon
Current	Priority Freight		Tampa	Grand Tu
Current	Priority Freight		Maracaibo	Tokyo
Current	Priority Freight		Maracaibo	Colon
Current	Priority Freight		Maracaibo	Grand Tu

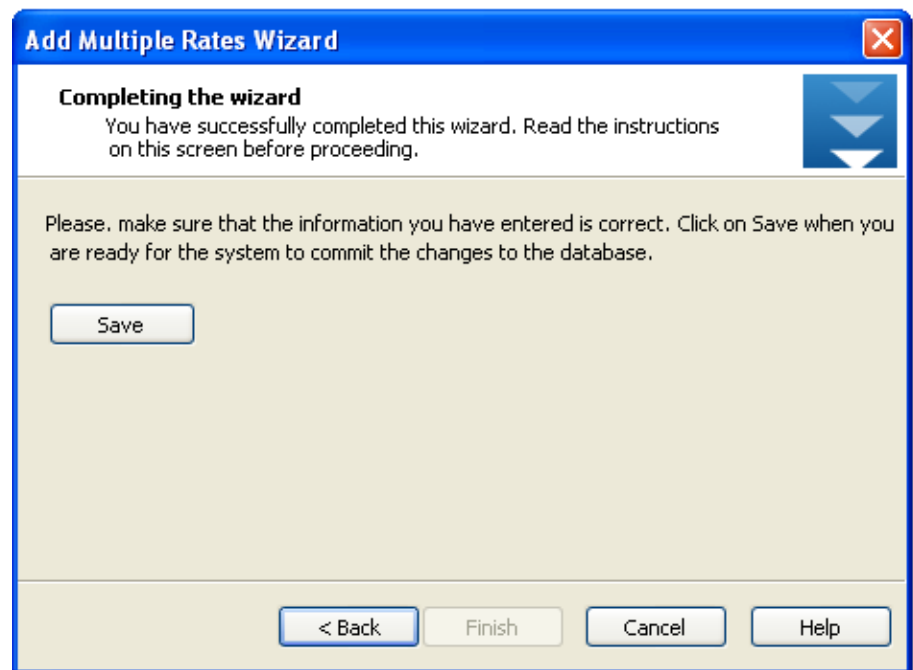
15 of 15 elements

< Back Next > Cancel Help

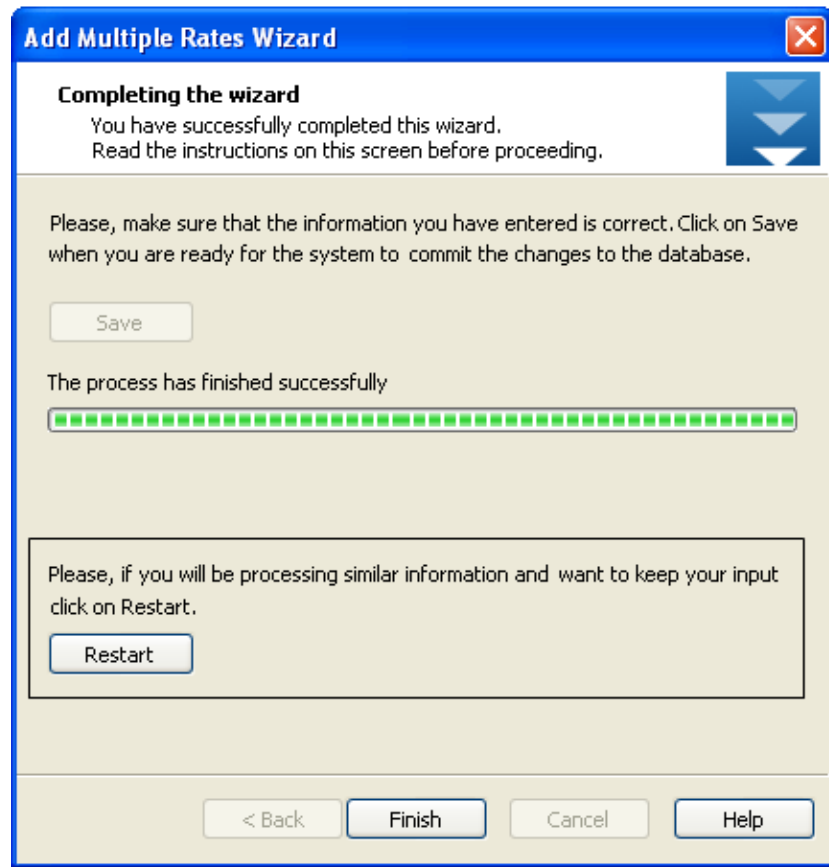
If you want to make an exception for one of the ports shown, select it and click “Edit”. To exclude that port from this rate, select the line and click “Remove”.

- 6) Click Next. The system will show you the rates that will be expired and replaced with the new ones you just added. If you do not have similar rates, this screen will be blank. To exclude a rate from expiring, select it and click “Remove”. Otherwise the system will expire any listed in this screen as of the day before the effective date for the new rate.
- 7) Click Next to go to the last screen in the wizard. Here you can save and finish, or save and add another rate:

- Click Save: The system tells you the processing is completed.



- Or click Restart: If you want to add additional rates that use some information that is similar to the rates you just entered, click the Restart button.



By clicking Restart, the wizard will return to the screen with the origin and destination ports.

- 8) Click Finish. The wizard closes, and the new rates are displayed in the list.

Extra Info: The same expiration rate can be used when copying a rate. This is useful when creating sales rates from the cost rates.

If a carrier offers a discount, you can use a negative number.

Amend Rates

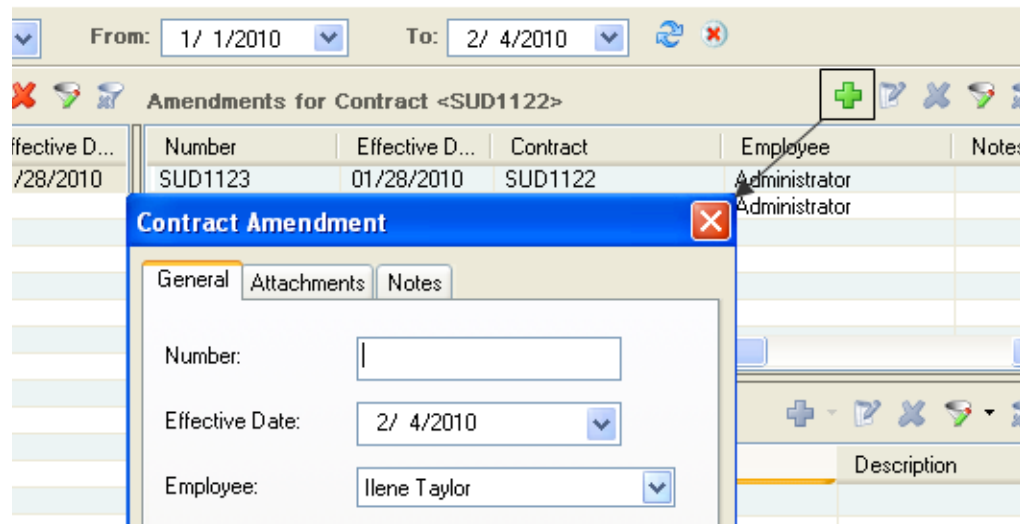
Learn how to make changes to rates in your Magaya system when you get a rate increase from a carrier. Also learn how to change a rate per customer.

Amend Rates based on GRI

When you receive a General Rate Increase (GRI) from a carrier, you can enter the updates in your Magaya system and apply the rate increase to multiple ports at one time, instead of one at a time.

Make sure you select the correct amendment that you want to make changes to.

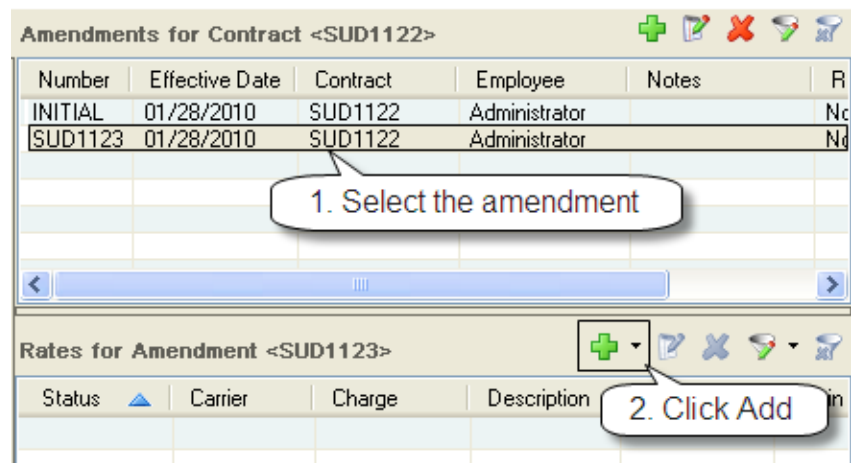
- 1) In the Amendments screen, click the plus sign. A dialog box opens.
- 2) Enter the Amendment Number and Effective Date.



- 3) Click OK. The dialog box closes, and the new amendment appears in the Amendments list. It will show the contract number and the amendment number.
- 4) Select the new Amendment to highlight it.

- 5) Go to the Rates section of the screen and click on the plus sign. Be sure you are in the correct amendment before you start to add new rates.

This example illustrates how to enter a 10% rate increase for a group of ports that have increased by the same amount.



- 6) From the Add button pop-up menu in the Rates section, select "Multiple Rates".
- 7) In the wizard, select "Copy from entities rates" for this carrier. If you want to use another carrier, select it from the dropdown "Select source entity".

In the additional fields that appear, enter the details of the transformed rates (such as percent and value of 10).

Add Multiple Rates Wizard

General information
Enter the required information to create the new rates

Carrier: SUD HAMBURG/COLUMBUS LINE

Effective Date: 1/28/2010

How would you like to create rates?

☐ Enter your own rates

☒ Copy from similar entities rates

Select source entity:

Modify copied rates

Modification Type: Increase a percentage

Value: 10 %

< Back Next > Cancel Help

- 8) Click Next. The Filter screen will appear. Here you can specify exactly which rates you want to transform. Filter the rates to find the rates that you want to apply the change to by specifying the following:

Add Multiple Rates Wizard

Filter rates
Specify what conditions must be met in order to process only the desired rates.
If a field is left blank it means all rates will match.

Status:

Service Class:

Commodity Type:

Method:

Mode of Transportation:

Applied By:

Package Type:

< Back Next > Cancel Help

When you set these criteria, the system will search in your Magaya database for any rates that match these criteria and already exist. If you leave a field blank in this screen, the system will apply the transformation to the criteria in that field.

- 9) Make changes such as removing ports that you do not want to apply the new rate to, and click the Next button.

Add Multiple Rates Wizard

Select ports
Select the origin and destination ports that will be used to filter the desired rates.

Ports of Origin:

Code	Name	Method
<input checked="" type="checkbox"/> MIA	Miami	Ocean Ro
<input checked="" type="checkbox"/> PBG	Pittsburg	Ocean
<input checked="" type="checkbox"/> PEF	Port Everglades	Ocean
<input checked="" type="checkbox"/> TPA	Tampa	Ocean Air
<input checked="" type="checkbox"/> MAR	Maracaibo	Ocean Air

Ports of Destination:

Code	Name	Method
<input checked="" type="checkbox"/> TYO	Tokyo	Ocean Air
<input checked="" type="checkbox"/> ONX	Colon	Ocean Mai
<input checked="" type="checkbox"/> GDT	Grand Turk	Ocean Air
<input checked="" type="checkbox"/> LIM	Lima	Ocean Air

Add... Remove Add... Remove

< Back Next > Cancel Help

- 10) In the next screen, “Found rates” the system will display the rates for the ports you selected. Click the Next button.

Add Multiple Rates Wizard

Found rates
These are the rates that match the previously specified search criteria.

Found rates:

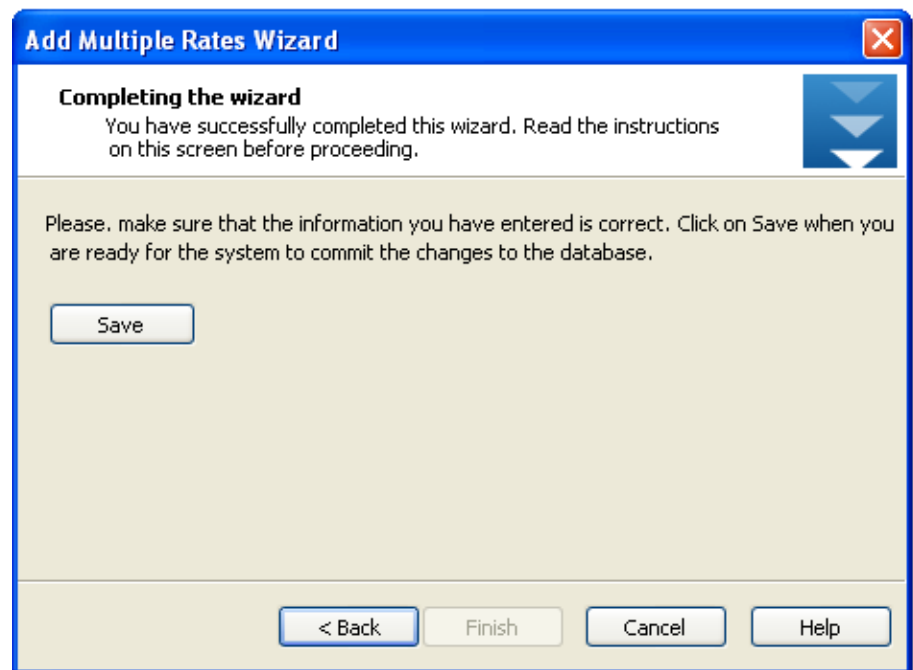
Status	Charge	Description	Origin	Destination	Remove
Current	Ocean Freight Serv...	Electronics	Tampa	Lima	

1 of 1 elements

< Back Next > Cancel Help

- 11) The system generates the new rates, applying the 10% increase to them all for you. It will split rates if you have two container sizes (20- and 40-foot) in the existing rate. For example, if you get an increase for a 20-foot container but not for a 40-foot container, the system will split the rates and show them all to you in this screen. Review the information and click Next.
- 12) The system will show you the rates that will be expired and replaced with the new ones you just added. The old rate will expire right before the new one takes effect. Review the date and time information and click Next.

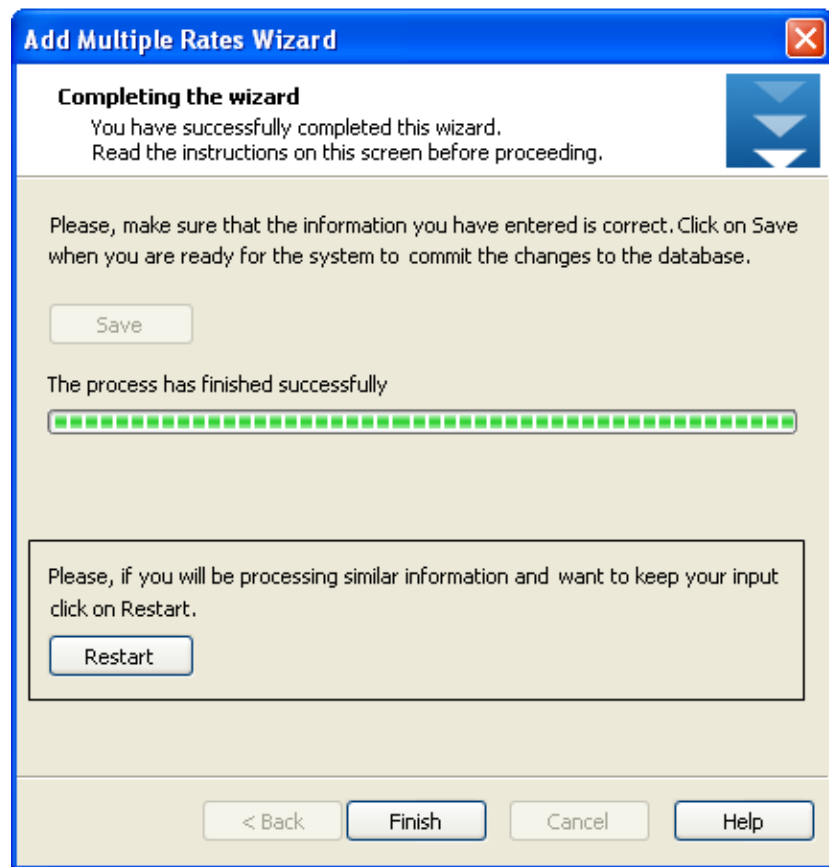
- 13) Click Save.



When you click the Save button, the system tells you the processing is completed.

If you want to add additional rates that use some information that is

similar to the rates you just entered, then click the Restart button.



If you click on the Restart button, the wizard will return to the first screen and show all your information on each screen so you can make changes.

- 14) Click Finish. The wizard closes, and the new rates are displayed in the list.

Modify a Standard Rate

When carriers raise their rates, you update the GRI and then apply the increase to your customers. If you do not want all your customers to have the same increase, you can give a customer a discount.

For this example, let's say you already entered the GRI and applied it to all the customers via the Standard Client Rates. To give a customer a discount, follow these steps:

- 1) Go to Client Contracts.
- 2) Add a new amendment for the customer.

- 3) Use the Multiple Rates wizard: click the option to “Transform from existing standard client rates”. Enter the amount of the change (for example, by weight and by percent). For this example, let’s modify the ocean freight for our customer, Jamaica Distribution Center, and only raise it by 20% instead of 30%.
 - a. For the field “Transformation Type,” select “Decrease a percentage”.
 - b. For the field “Value,” enter 10.
 - c. Specify the conditions such as “Ocean Freight Service Cost” and “Vessel, Containerized”, etc. according to the GRI.
- 4) Complete the wizard by specifying ports, reviewing the rates generated by the wizard, and save the changes.

The discounted rate for that customer is saved. When a shipment is created for this customer, the system pulls the rate from this discounted rate.

For a PDF of this procedure, see the Magaya.com Training page, Tech Tip for June 2012.

Modify Rates for Your Customers

To make a change to the rate you charge your customers, follow these steps.

- 1) Go to Client Rates > click on the Actions button > select Modify Rates. A wizard opens. In the first screen of the wizard, do the following:
 1. Select the client (customer) that you want to change the rate for.
 2. Choose the type of modification: a) To change the expiration date, or b) to modify the rates. If you are modifying the rates for the customer, select how you to modify them - what type and the value.

The screenshot shows the 'Modify Rates Wizard' dialog box with the 'General information' tab selected. The title bar says 'Modify Rates Wizard' with a close button. Below the title bar, the text 'General information' is followed by the instruction 'Specify the type of modification you would like to apply to the rates'. There are two numbered callouts: '1' points to the 'Client:' dropdown menu which is set to 'Atlantic Surplus'; '2' points to the 'Choose the type of modification to be applied:' section. In this section, option 'a) Expire rates on this date' is unselected, and a date '2/19/2010' is shown in a dropdown. Option 'b) Modify rates' is selected with a radio button. Below this, 'Modification Type:' is set to 'Increase a percentage' in a dropdown, and 'Value:' is set to '3' in a text box followed by a '%' symbol. At the bottom of the dialog are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'. A blue arrow icon is visible in the top right corner of the dialog area.

- 2) Filter the rates in the next screen by service class, method of transport, and other criteria that apply. Click the Next button.
- 3) Select the ports from the list and go to the next screen to see the rates the system found.
- 4) In the last screen click the Save button to save and finish the wizard. If you want to make other changes with similar criteria, click on the Restart button.

Note: This wizard works the same for Carrier Rates and for Client Rates.

When you customize the Standard Client Rates, the first screen in the wizard does not have a client to select because the modification you make will apply to all clients.

Modify Rates Wizard

General information
Specify the type of modification you would like to apply to the rates

Choose the modification to be applied:

☐ Expire rates on this date
8/19/2013

☒ Modify rates

Modification Type: Increase a percentage

Value: 10 %

To modify all Standard Client Rates

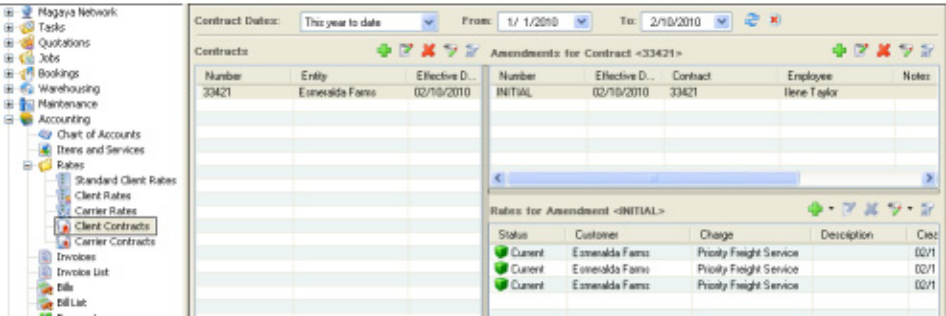
< Back Next > Cancel Help

Client Contracts

Magaya software includes a wizard to help manage contracts you offer your customers.

Client Contracts: Add Contracts and Rates

Use the wizard screens to manage contracts you create for your clients. The wizard works the same way as the wizard for adding carrier contracts and carrier rates.



First, add the contract for the client.

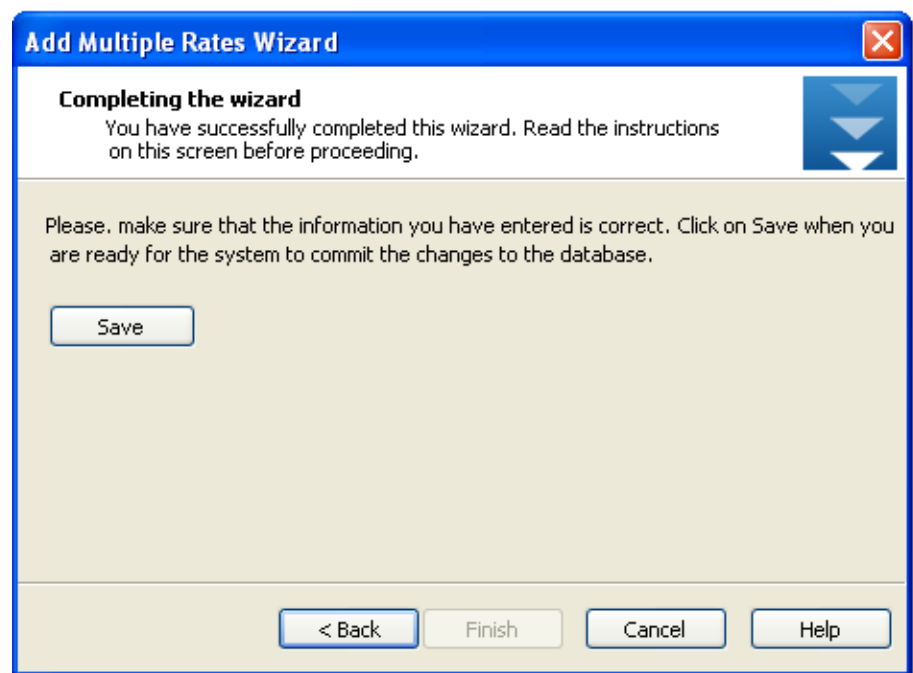
The contract for the client is added. Now you can add rates for that client.

Select the amendment and click on the Add button in the “Rates for Amendment” part of the Client Contracts screen. A wizard opens. This example shows you **how to enter your own Multiple Rates**.

- 1) Enter the information in the first screen of the wizard for this client:
 - **Enter your own rates:** With this option, you enter the rates from the contract, the origin and destination, and the system will create the rates for you for all the origins and destinations. For example, if a carrier sends you the same rate for a 20-foot container for a group of ports, use this option. This example will show this option.
 - **Copy from similar entities rates:** Use this option to make amendments, for example by origin and destination or by percentage. You will not have to recreate the rates from scratch. It works with the existing data you have previously entered. When this option is selected, another field appears for you to enter the details: Select the type of modification (by percentage or flat rate increase or decrease), and enter the value (the number such as 10 for 10%).

Select source entity: Use a similar rate that you created for a different customer.
 - **Copy from carrier rates:** Select the carrier that you want to use that has similar rates so you can copy those rates here and make changes.

- **Copy from standard client rates:** This will use the Standard Client Rates you set up earlier. Then you can make changes to the standard rates.
- 2) Click Next to select the ports. (You will see the filter screen if you are transforming from existing rates.)
 - Click the Add button to open the Ports list. Click on the port names and click the OK button. Do this for the origin and destination. Click Next to go to the next screen in the wizard.
 - 3) Click the Add button to enter the common rates for the ports you selected in the previous screen.
 - 4) Click Next to go to the next screen. This screen will show you the rates that were generated by the system. You can edit a rate here if needed. Click Next.
 - 5) If there are any rates similar to the ones created, the system will set the expiration dates for them based on the effective date. Click Next.
 - 6) Click the Save button if you are done.



The rate information is saved. The following note will appear: "The process has finished successfully." Click the Finish button if you are done.

- 7) Click on the Restart button if you want to add more rates and use some of the same information. The wizard will return to the first screen and show all your information on each screen so you can make changes.

Salesperson's Commissions

In your Magaya system, you can add salesperson's profiles and include commission participation rates for each salesperson when they sell or freight or inventory. The system enables you to enter profiles for sales people who are employees or outside contractors/vendors:

- If a salesperson is an outside vendor, enter their details in the Salesperson profile.
- If a salesperson is an employee, enter their details in the Employee profile and a Salesperson profile. The Employee profile includes the User login and password fields.

Commissions can be set individually for each salesperson or system-wide to apply to all sales people.

To set a percent commission system-wide to apply to all salespeople for liquidations of shipments, go to Maintenance > Configuration > Accounting and click "Configure Liquidation Options" button for Outgoing or Incoming. Set the percent in the dialog box.

Add a New Salesperson

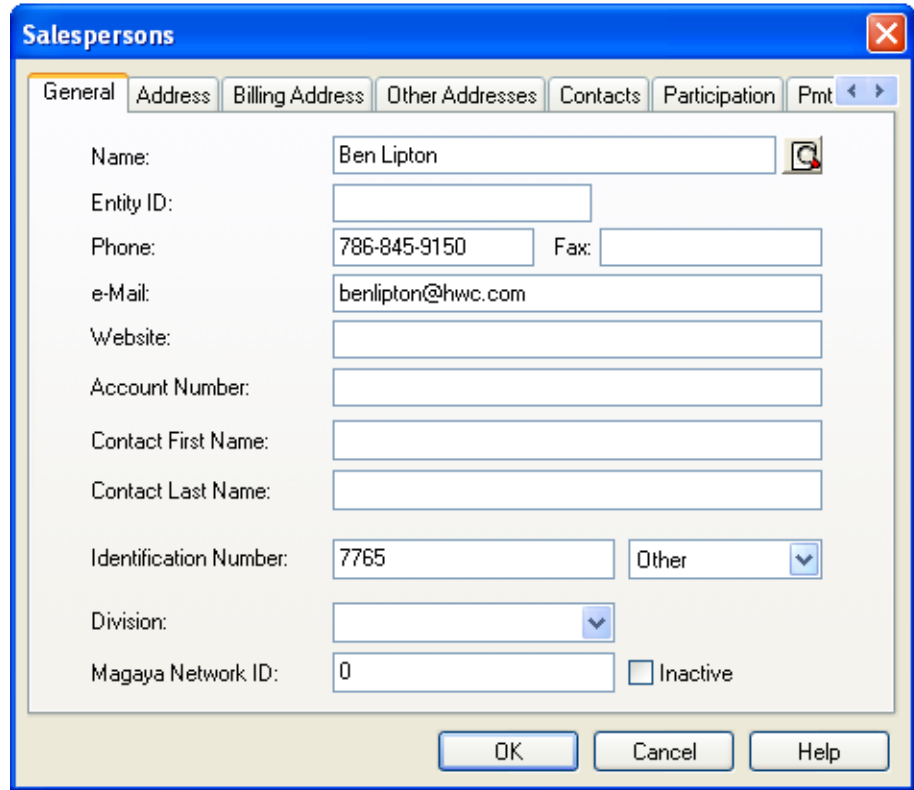
To add a new salesperson to your system, follow these steps:

- 1) Go to Maintenance > Salespersons.
- 2) Click the Add button.

In the dialog box that opens, you can enter details on any tab. On the General tab, enter their email, phone number, which division they work

for if applicable, their address, billing address if different, and other personal information as needed.

The Identification number can be a DUNS, EIN, SSN (Social Security Number), a Foreign or Other type of number.



The image shows a software dialog box titled "Salespersons". It has a tabbed interface with tabs for "General", "Address", "Billing Address", "Other Addresses", "Contacts", "Participation", and "Pmt". The "General" tab is currently selected. The form contains the following fields and controls:

- Name: Text box containing "Ben Lipton" with a small icon to its right.
- Entity ID: Empty text box.
- Phone: Text box containing "786-845-9150".
- Fax: Empty text box.
- e-Mail: Text box containing "benlipton@hwc.com".
- Website: Empty text box.
- Account Number: Empty text box.
- Contact First Name: Empty text box.
- Contact Last Name: Empty text box.
- Identification Number: Text box containing "7765".
- Identification Type: Dropdown menu showing "Other".
- Division: Dropdown menu.
- Magaya Network ID: Text box containing "0".
- Inactive: A checkbox labeled "Inactive" which is currently unchecked.

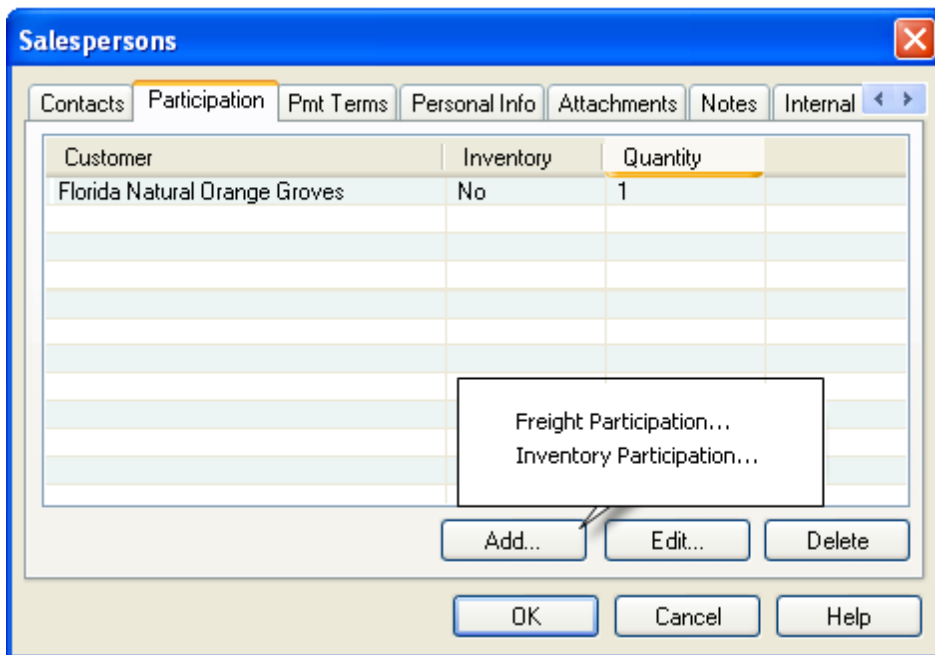
At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".

Freight Commission

Individual sales people can have their commissions calculated in Magaya Explorer for any freight they sell. Set the commission amount in their profile, and the amount will be automatically added to transactions such as shipments.

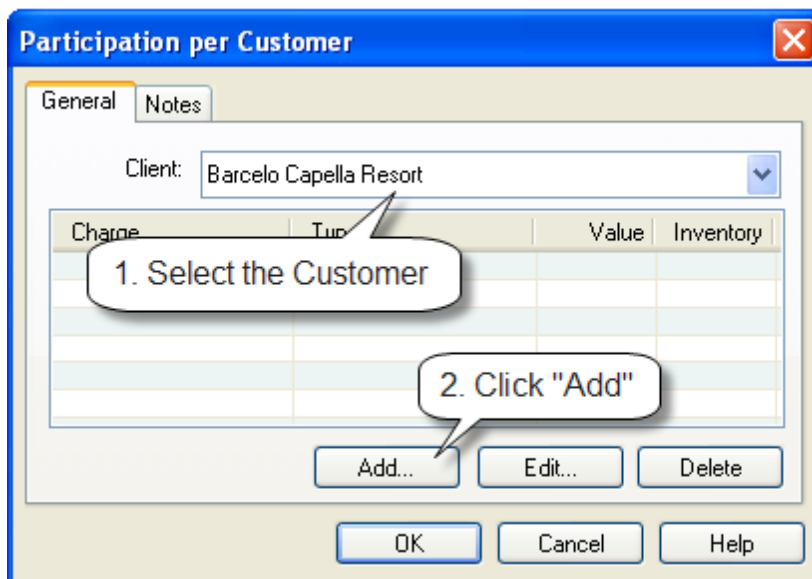
To add a freight commission (“participation”) for a salesperson, open their profile in Maintenance > Salespersons. Click on the Participation tab and perform the following steps:

- 1) Click the “Add” button and select “Freight Participation”.



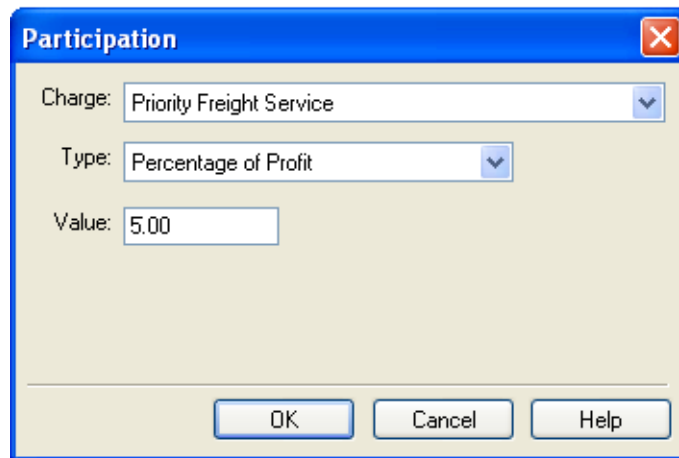
Note: The freight and inventory options are available in the Magaya Supply Chain Solution and Magaya Commerce System.

- 2) In the “Participation per Customer” screen, select a customer to associate with the commission. This means each transaction that includes this customer will generate a commission for this salesperson based on the amount set here.



- 3) Click the “Add” button. Select either a charge or a shipment.

An example of a Charge is “Priority Freight Service”.

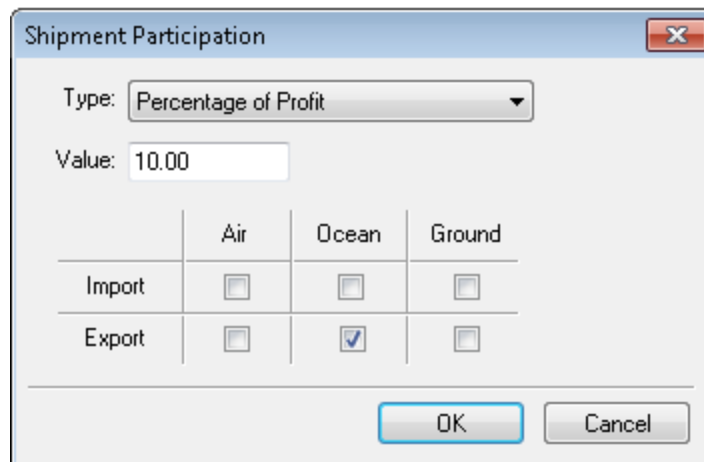


The "Participation" dialog box has a blue title bar with a close button. It contains three fields: "Charge:" with a dropdown menu showing "Priority Freight Service", "Type:" with a dropdown menu showing "Percentage of Profit", and "Value:" with a text box containing "5.00". At the bottom are "OK", "Cancel", and "Help" buttons.

To choose how you want to calculate the commission, click the “Type” dropdown and choose the type of commission. This example shows percentage of profit, but you can also select a flat rate, or set the amount to calculate by volume, weight, or pieces).

Enter the value such as “5” for five percent of the profit.

An example of a shipment is a percent of a type of shipment such as an ocean export. Percents can be set individually per type of shipment.



The "Shipment Participation" dialog box has a light blue title bar with a close button. It contains a "Type:" dropdown menu showing "Percentage of Profit" and a "Value:" text box containing "10.00". Below these is a table with checkboxes for different shipment types.

	Air	Ocean	Ground
Import	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Export	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

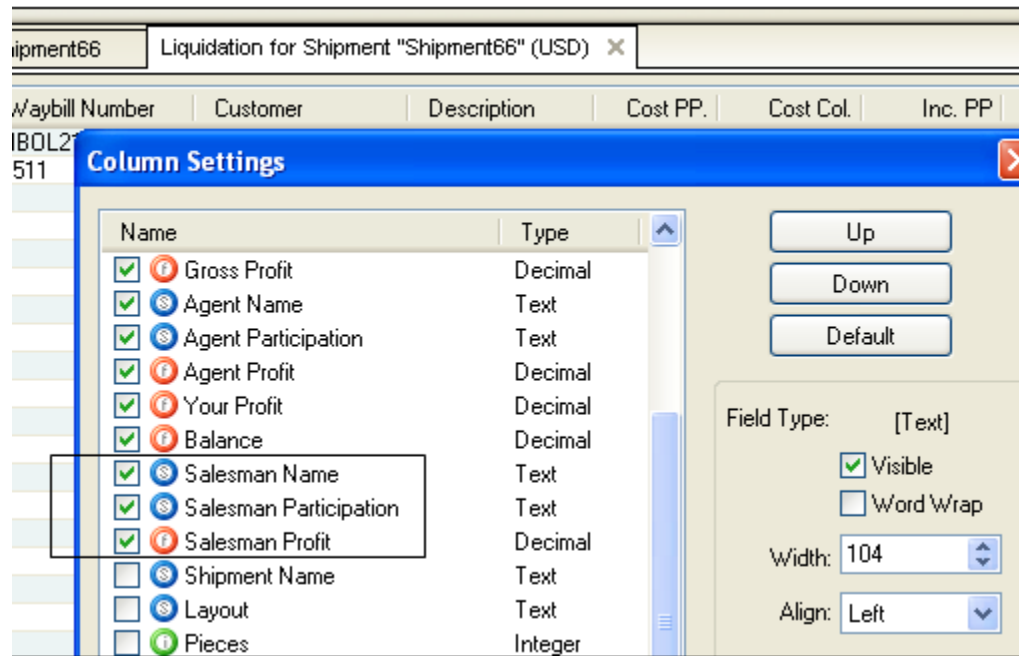
At the bottom are "OK" and "Cancel" buttons.

Click OK in each dialog box to save.

When a salesperson sells freight, the commission is generated in the shipment transaction in the Liquidation screen.

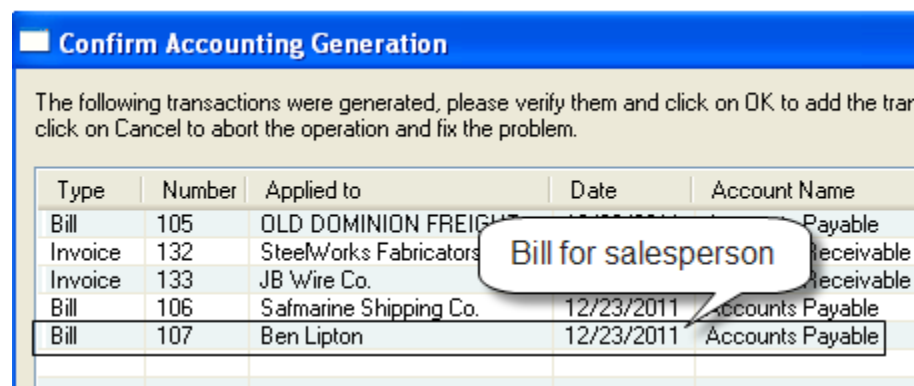
View Columns for Participation:

Click the “Actions” button to see the list of columns you can add to the Liquidation screen. Select the columns for the salesman name, participation, and profit.



The commission can also be changed in the Liquidation screen by double-clicking on the line.

When you click the “Generate” button in the Liquidation screen, a dialog box opens listing all the accounting transactions for the shipment, including the Bill for the salesperson’s commission.



The bill and other transactions are saved in the Magaya accounting folder.

To see how the commissions are generated in shipments, see the section “Liquidation” in Chapter 14 of the *Magaya Cargo System Operations Manual*.

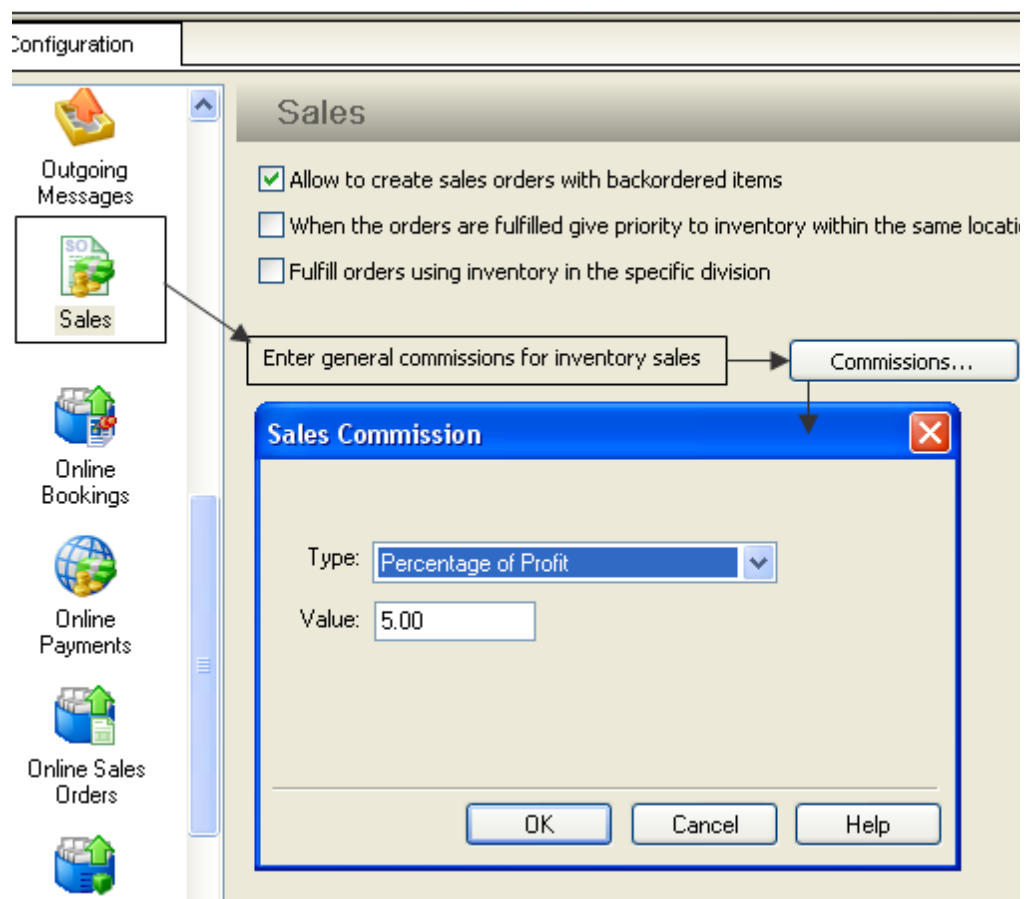
Inventory Commissions

In the Magaya Commerce System and Magaya Supply Chain Solution, salespersons commissions for inventory sales can be set per item, per category, or system-wide.

General Inventory Commissions:

To configure a general commission that applies to all inventory sales and to all salespersons system-wide, follow these steps.

- 1) Go to Maintenance > Configuration > Sales
- 2) Click the “Commissions” button.



In the dialog box, select the Type and Value of the inventory commission. This will be applied to all inventory items sold by any sales person. For example, to add a commission of 5% of the profit, enter “5”. (Do not type in “0.05” for 5%. Type “5”. Do not type the percent symbol in the field.)

- 3) Click OK and Save.

Inventory Commission per Item:

To add a commission to an item, go to the Inventory Items Definitions list, open (or create) an item.

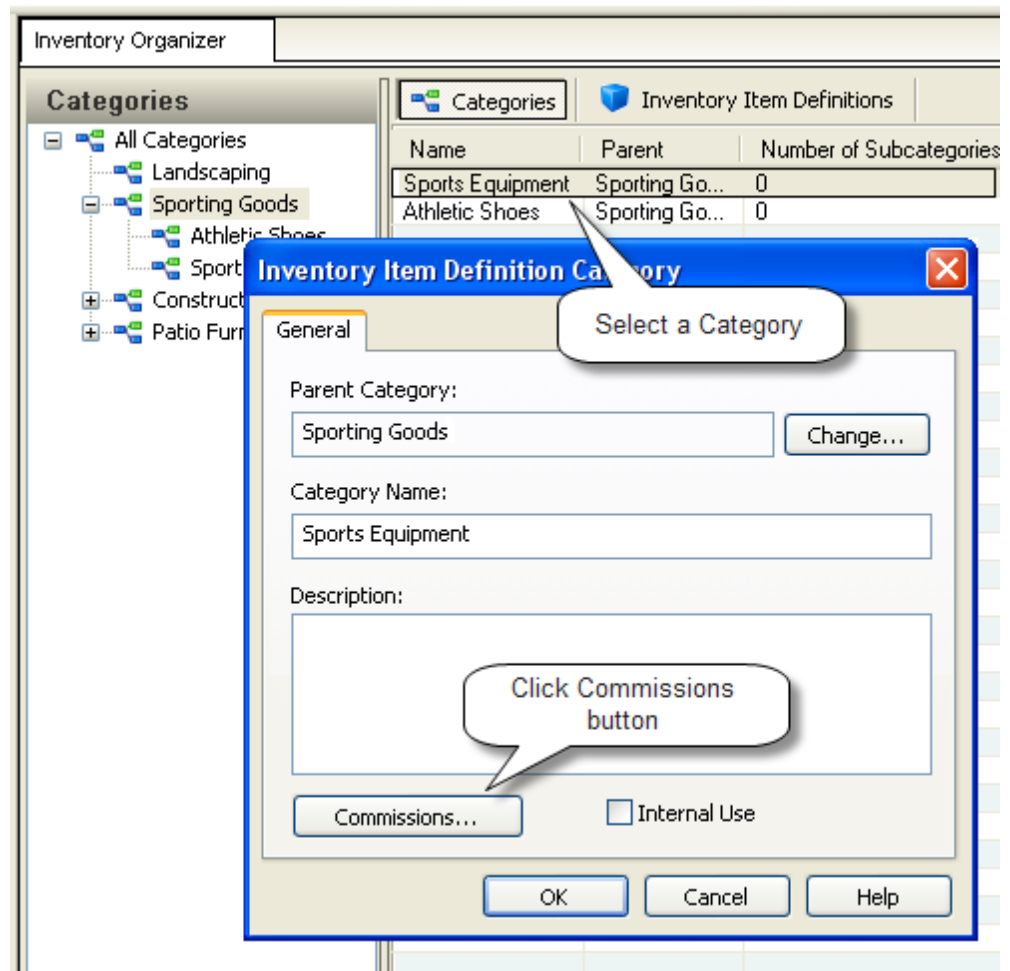
On the Accounting tab, click the “Commissions” button and select the type and set the value for the commission in the dialog box.

The screenshot shows the 'Inventory Item Definitions' window with the 'Accounting' tab selected. The 'Part Number' list on the left includes items like WBB1, TEVA-776, SG100, RTS20, RTR30, RT60, RT444, RT333, RT100, RS-100, RB21, QC10WEP, PT500, and DC125. The main form fields are: 'Unitary Value' set to 125.00 USD, 'Purchase Item' set to 'Rattan chair round Cost', 'Sales Item' set to 'Rattan chair round', and 'Inventory Type' set to 'FIFO - First In First Out'. A 'Commissions...' button is highlighted at the bottom.

Inventory Commission per Category:

To add a commission to a whole category of items that are sold online in the Online Sales Orders of Magaya LiveTrack, (for users of the Magaya Supply Chain Solution), go to the Inventory Organizer in the Warehousing folder.

Open (or create) a category, and select the type and set the value for the commission in the dialog box.



When a customer purchases an item online, the commission amount is added to the transaction.

When a salesperson sells inventory, the commission can be generated from the Sales Order by clicking on the Actions button (after creating the Invoice). The system creates a Bill payable to the salesperson.

Agent Participation

The Magaya system enables you to set agent and sales participation system-wide or per agent and per salesperson.

Set Globally: To set a percent system-wide to apply to all agents:

- 1) Go Maintenance > Configuration > Accounting
- 2) Click the button for Outgoing or Incoming for “Configure liquidation options.” You can set the percent for each type of shipment independently.



- 3) Check the box for the agent shipment participation and enter the percent

<input checked="" type="checkbox"/> Agent shipment participation	50.00	%
<input type="checkbox"/> Salesman shipment participation	0.00	%

Note: This is the same configuration dialog box available in the Liquidation screen of a shipment.

Result: The system will process the configuration automatically when a shipment is created. Changes can be made per line of the shipment liquidation screen if needed.

Set Per Agent: Entering data in your Magaya system for agent participation is similar to setting salesperson's commissions.

- 1) Go to Maintenance > Forwarding Agents.
- 2) Open the Agent's profile. In the dialog box, go to the Participation tab.

Click the “Add” button and select the type of participation you want: Charge or Shipment.

Apply to	Charge	Type	Value	Inventory	Shipments
Charge	Bunker Surcharge	Flat Value	10.00	No	
Shipment		Percentage of Profit	10.00	No	OME

Buttons: Add... Edit... Delete

Context Menu:

- Charge participation...
- Shipment participation...

Buttons: OK Cancel Help

- In the **Charge Participation** dialog box, select the Charge, Type, and Value. The Type can be a percent, a flat value, or amount per volume, weight or pieces.

Participation

Charge: Ocean Freight Service

Type: Percentage of Profit

Value: 20.00

OK Cancel Help

- In the **Shipment Participation** dialog box, add the value. The Type is percent of the shipment profit. Select the modes of transport for this percent.

Shipment Participation

Type: Percentage of Profit

Value: 10.00

	Air	Ocean	Ground
Import	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Export	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

OK Cancel

The system calculates the shipment participation for a charge participation, if one is set.

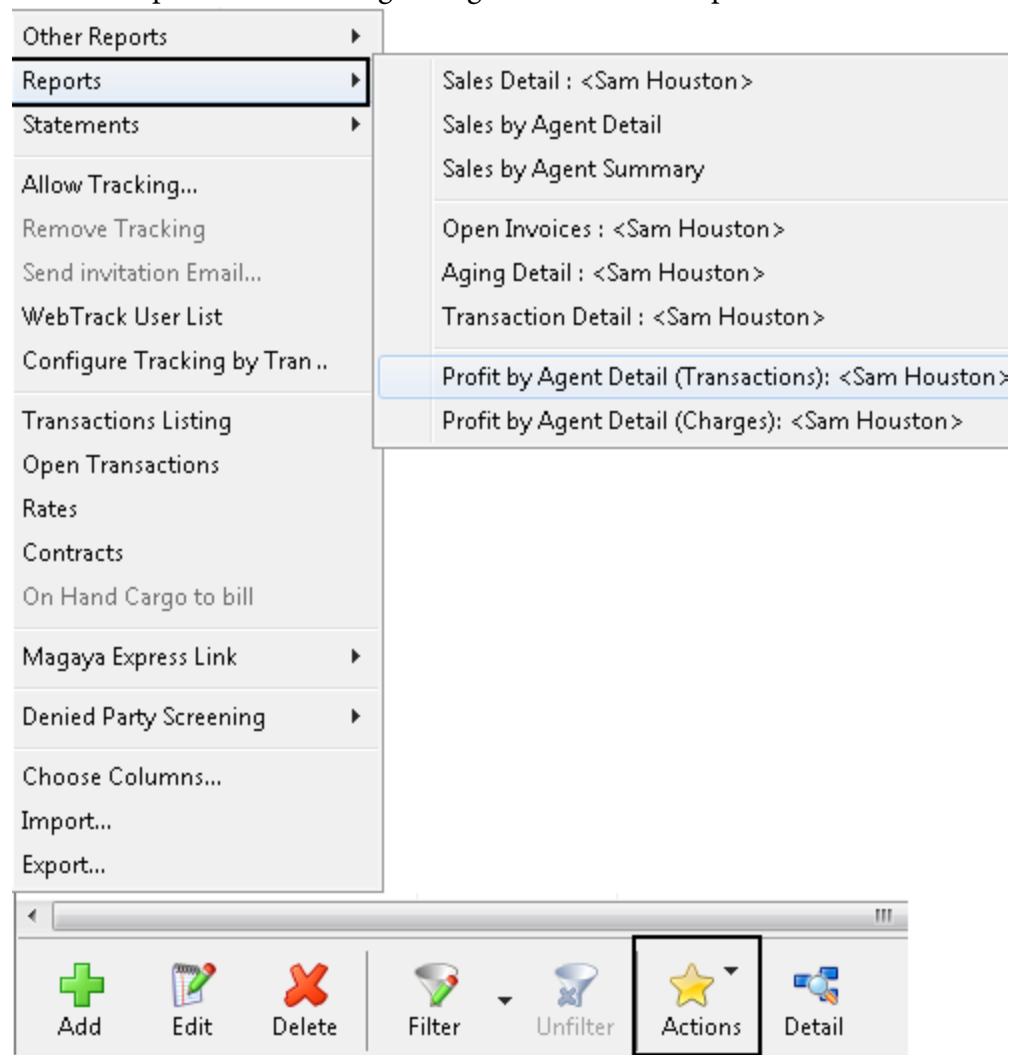
- 3) Click OK on each dialog box to save.

To see how the agent's participation is generated in shipments, see the section "Liquidation" in Chapter 14 of the *Magaya Cargo System Operations Manual*.

Reports

Reports can be created in your Magaya system to view all commissions:

In the Salesperson's List or Agent's, go to: Actions > Reports



Additional reports are available from the Reports menu on the top of your Magaya Explorer. Select "Profit Reports" to see profit by salesperson or agent.

The "Sales Reports" menu option also includes other accounting reports that show commissions such as the "Sales Reports by Item" report. Also see the Chart of Accounts to make a report from the Actions button to see accounts by Type Code (the commissions are grouped under Expenses).

3. Configuration Menu

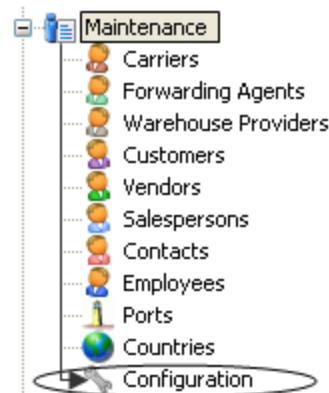
Introduction to the Configuration Menu

You can customize your Magaya software in many ways. The Configuration menu in the Maintenance folder provides options to:

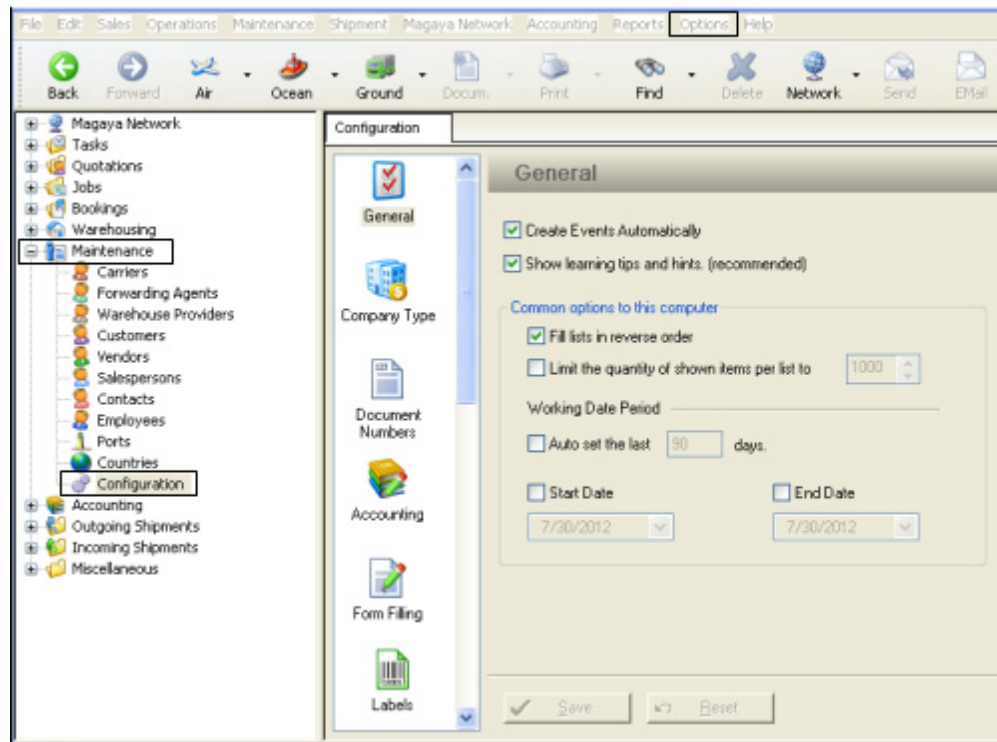
- Set up measurement units and how much detail to display in your documents
- Set up document numbering for checks, invoices, pickup orders and other transactions
- Enter clauses and define events to use in shipments and other transactions specific to your company
- Set up Transaction Tracking and customize the email invitation
- Create custom fields to use in transactions and forms
- Define Task Types and more

Some options may not be available in your system, depending on the software program you are using or if a plug-in is activated for your Magaya account. To activate an option, contact your Magaya Logistics Advisor.

To access the Configuration menu, go to the Maintenance folder:



The Configuration menu appears in the viewing pane of your Magaya Explorer. To see all the options, use the scroll bar.



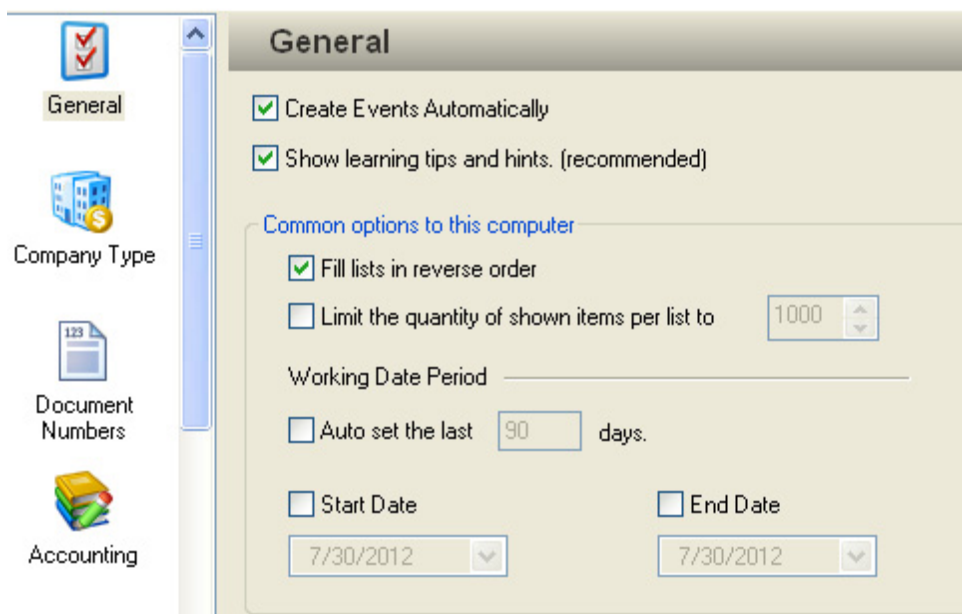
You can also open the Configuration menu by clicking on “Options” from the top of your Magaya Explorer screen.

Click the Save button at the bottom to save any changes. If you want to return to your previous settings, click the Reset button. Any changes made to the configuration menu options are recorded in the Transaction Log.

The following sections explain each configuration option in detail.

General

The “General” option contains the following choices:



- **Create Events Automatically:** This box is checked by default. This will turn on or off the capability to add events automatically to the operations transactions. To define events for use in your system, go to the Event Definition option in the Configuration menu. For steps how to add events, see the topic “Events” in Chapter 6 of the *Magaya Cargo System Operations Manual*. Events will display in the Events tab of related transactions.
- **Optimize Loading of Entities at Start Up:** This will load all the Customer, Vendor, etc. information when you start your system. *Tip:* This also applies to Magaya OnTheGo. If you have a large database, it may load slowly at start up. If you uncheck this option, the entities lists will load when you click on them, not at start up.
- **Common options to this computer:** This enables the following customizations that can be set per computer (per user):
 - **Fill lists in reverse order:** This box is checked by default. This will display lists such as the Warehouse Receipts (WR) List or Pickup Orders List with the most recent transaction at the top. Unchecking this box will show the oldest transactions at the top.
 - **Limit the quantity of shown items per list to:** Set the number as needed. This is useful when your database grows and you do not need to view older transactions.
 - **Working Date Period:** These options allow you to choose between setting the working date period by dates you specify or by an auto-

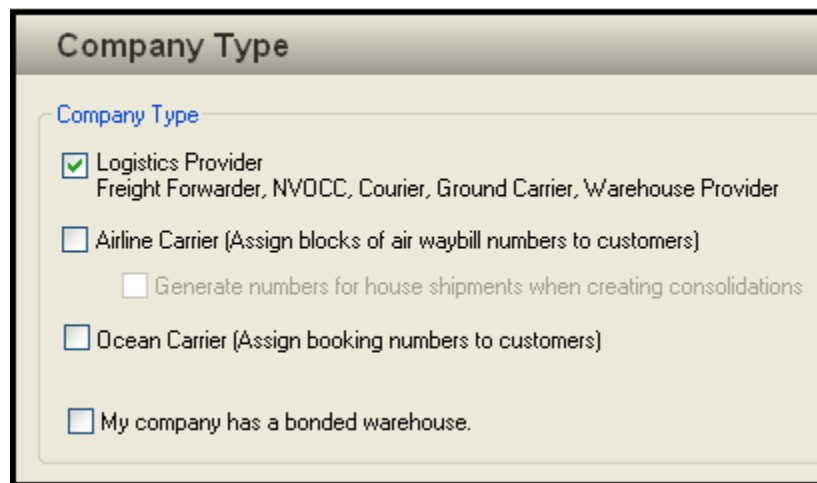
matic number of days. When you have a database with several years of data, you can set a Working Date Period to view only the data from the current year.

Click the Save button (or Reset button).

Company Type

This option will set the type of company you have. This can also be set in the Startup Wizard. If you used the Startup Wizard, the type of company you selected will appear here. If not, it will be blank. You can select a choice in this screen at any time.

If more than one of the options apply to your company, select all that apply.



- If your company is an airline carrier, click on the Airline Carrier button. This enables you to assign Air Waybill numbers to customers (this will be available under the Maintenance folder). This will treat Masters as Flights, and Houses as Masters.

The option below “Airline Carrier” will be activated when you check the Airline Carrier button. You have the option of generating numbers for house shipments when you create consolidations. By checking the box, the numbers will be created. Do not check the box if you do **not** want the numbers generated.

- If your company is an Ocean Carrier, select this button to allow different ports of loading and unloading per voyage. With this option, Masters are treated as Voyages, and Houses are Masters.
- If your company has a bonded warehouse, check the box.

Click the Save or Reset button.

Document Numbers

Document numbers for operations transactions can be customized in your Magaya system by using this screen:

Document Numbers									
Use consecutive numbers for									
<input checked="" type="checkbox"/> Quotations	Set...			<input checked="" type="checkbox"/> Trips	Set...				
<input checked="" type="checkbox"/> Pickup Orders	Set...			<input checked="" type="checkbox"/> Jobs	Set...				
<input checked="" type="checkbox"/> Warehouse Receipts	Set...			<input checked="" type="checkbox"/> Purchase Orders	Set...				
<input checked="" type="checkbox"/> Cargo Releases	Set...			<input checked="" type="checkbox"/> Sales Orders	Set...				
<input checked="" type="checkbox"/> Cargo Movement	Set...			<input checked="" type="checkbox"/> Bookings	Set...				
<input checked="" type="checkbox"/> Use shipment numbers	EXPORT			IMPORT			<input type="checkbox"/> Different from export		
	Air	Ocean	Ground	Air	Ocean	Ground			
Masters	<input type="checkbox"/>	<input type="checkbox"/>			
Straights	<input type="checkbox"/>	<input type="checkbox"/>			
Houses				
One number for all Consolidations and Straight shipments. House shipments have their own numbers.				Use same numbers as in export.					

The Magaya system is set to number all transactions with consecutive numbers. If you want to change this default, uncheck the box for the transaction you want to use non-consecutive numbers for. If you uncheck a box, the Set button is grayed out (inactive):

<input type="checkbox"/> Quotations	Set...
-------------------------------------	--------

As a result of unchecking the consecutive numbering setup, each transaction made will require the user manually enter a transaction number.

If you uncheck the box “Use shipment numbers”, the message below it will change to “Shipment numbers will not be used”:

If unchecked, shipment numbers will not be used.

	EXPORT			Set...
	Air	Ocean	Ground	
Use <input type="checkbox"/> shipment numbers				
Masters	<input type="checkbox"/>	
Straights	<input type="checkbox"/>	
Houses	
Shipment numbers will not be used				

For **Exports**, activate the numbering formatting for Air, Ocean, and Ground transactions by checking the box for Export Masters or Straights. The buttons with the three dots will be activated. Click on a button to open the number formatting dialog box. (Note: This button opens the same Document Numbering dialog box as the Set button.)

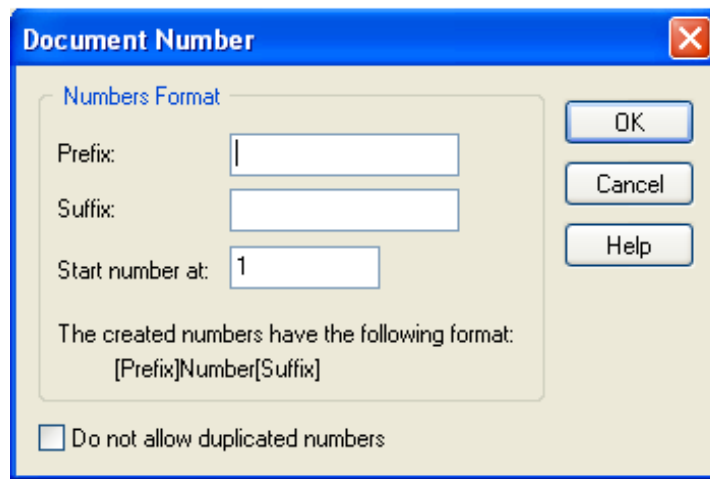
For **Imports**, you can make the Import shipment numbers different from the Exports by checking the box “Different from export”. The Set button will be activated and the message changes to “One number for Consolidations and Straight shipments. House shipments have their own numbers.”

Check this box to activate Import numbering

IMPORT		<input checked="" type="checkbox"/> Different from export	Set...
	Air	Ocean	Ground
<input type="checkbox"/>
<input type="checkbox"/>

One number for all Consolidations and Straight shipments. House shipments have their own numbers.			

The Document Numbering dialog box has the following options:



Numbers can be formatted as follows:

- **Prefix:** This will add numbers or letters to the front of the transaction type you have clicked the Set button for. For example, if you want all your Warehouse Receipts to begin with the letters “WR”, enter the letters WR in the Prefix field. Other examples: The House Air waybill document numbering has a default prefix of “HAWB”. The Ocean and Ground formats begin with “HBOL”. This can be changed by typing over the default letters.
- **Suffix:** This will add numbers or letters to the end of any transaction number.
- **Start number at:** Enter a number here to start the numbering of documents. The first document you create will use the next number. Example: If you enter 0, then next document will start with 1.
- **Do not allow duplicated numbers:** Check this box to avoid having any documents with the same number. If you do not check this box, the system will ask you if you want to use the same number when you are creating this type of document. You can choose Yes or No at that time.
- **Lock transaction numbers:** Some documents have the option to allow you to lock the transaction numbers such as Air Waybills or Bills of Lading. Setting this requires admin rights. This option is off by default. Click the box to activate it.
- Click the OK button to save changes and return to the screen.

Click the Save or Reset button in the screen.

Accounting

The choices in this configuration screen set up accounting document features such as:

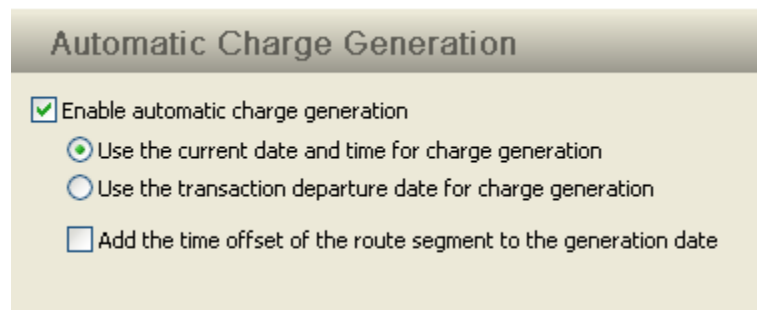
- Using consecutive numbers in accounting documents
- Managing landed costs and average cost of inventory
- QuickBooks exporting configuration
- How your system manages Credit Limits for customers
- Other settings: To generate charges automatically, date to close accounting, transaction due dates, set currencies, set fiscal year, set up default accounts, set periodic invoicing, setting sales tax, and set liquidation options

This option is explained in the topic “Advanced Accounting Features” in the *Magaya Software Accounting Manual*.

Automatic Charge Generation

This configuration enables your system to include charges automatically on transactions. See Chapter 2 in the *Magaya Software Customization Manual* to learn how to automate charges.

These options are also connected with the Routes feature and enable your system to generate charges based on the preferences set here such as setting the date and time for the charge.



The screenshot shows a configuration window titled "Automatic Charge Generation". It contains four options:

- ☒ Enable automatic charge generation
- ☒ Use the current date and time for charge generation
- ☐ Use the transaction departure date for charge generation
- ☐ Add the time offset of the route segment to the generation date

This configuration is checkmarked as Enabled by default. It uses the current date to generate charges. Change as needed. This screen works in combination with the Automatic Creation tab on the Items & Services dialog box.

Fiscal Printer

This configuration option is used to set up a fiscal printer to print invoices and credit memos. Fiscal printers are mandatory for Latin American accounting transactions.

To activate the fiscal printer feature after you install the fiscal printer, check the box in the Configuration screen to enable the feature:

The screenshot shows the 'Fiscal Printer' configuration window. The sidebar on the left contains icons for 'Fiscal Printer', 'Form Filling', 'Labels', 'Measurement Units', and 'Cargo Insurance'. The main panel is titled 'Fiscal Printer' and is divided into two sections: 'General' and 'Printer settings'.

General section:

- ☒ Enable Fiscal Printer
- Company commercial name:
- ☐ Print Invoices to Fiscal Printer by default
- ☐ Allow Administrators to delete voided invoices (NOT RECOMMENDED)

Printer settings section:

- ☐ Override global company configuration
- Local commercial name:
- Printer make:
- Printer model:
- COM Port:
- Bits per second:

A 'Test Connection' button is located at the bottom right of the 'Printer settings' section.

In the field “Company commercial name” enter your company’s name as you want it to appear on the documents you print. This is a general system-wide setting.

- To tell your Magaya system to use the fiscal printer for invoices by default, check the box “Print invoices to fiscal printer by default.” This does not mean that all your documents will print to this printer, only the invoices. The system can tell which type of document it is printing. If you do not select this option here, you will have to tell the printer to use this printer by selecting it from the Print button when in the Invoice document view.
- The option to allow a user with administrative rights to deleted voided invoices can be turned on, but it is off by default. It is not recommended that you allow this option. It is only designed for emergencies to delete an invoice that was printed and then voided with a credit memo.

If you want to override the global settings for the printer name, check the box for “Override global company configuration” and enter a division name or name for a branch of the company that you want printed on the documents.

Next, select the printer make (manufacturer), model, port and bits per second.

Click the “Test Connection” button to test the settings. The system will either display an error report or information about the printer, including the tax rates for this fiscal printer.

Save the settings.

Also: Set the tax rates in your Magaya system to match the tax rates defined by your fiscal printer. For example, if your fiscal printer includes tax rates of 5, 10 and 15%, then you must have a rate in your Tax Table for 5, 10, and 15%. Go to the Chart of Accounts > Actions > Tax Table to verify this.

Add the RUC number to any entity involved in a fiscal transaction. Go to the entity profile, on the General tab, enter the RUC number in the field “Identification Number.” Select “Other” for the type.

Vendors

General | Address | Billing Address | Other Addresses | Contacts | Charges | Pmt Terms | Personal

Name: Champion Automotive

Entity ID:

Phone:

Fax:

Email:

Website:

Account Number:

Contact First Name:

Contact Last Name:

Identification Number: 220961197911 Other

Division:

Magaya Network ID: 0 ☐ Inactive

MAGAYA TIP OK Cancel Help

Enter RUC number for entities in invoices sent to fiscal printer

Denied Party Screening

The Magaya Denied Party Screening plug-in helps your company comply with U.S. government export regulations that require verification of entities to determine if they are included on the list of denied individuals or companies.

Configure

This plug-in needs to be configured to tell the system when you want to screen because there is a monthly service fee which includes a minimum quantity of screenings per month. If you go over the minimum, you will be charged per entity that you screen.

To configure the Magaya Denied Party Screening plug-in, go to Maintenance > Configuration > Denied Party Screening.

Denied Party Screening

Denied Party Screening

☒ Enable Denied Party Screening

☒ Screen new entities/contacts when creating them

☒ Screen entities/contacts when editing them

☒ Screen shipments before filing to AES

☒ Always confirm screening results

Minimum threshold acceptance: Fair Match

Days to validate since last check: 30

Banned countries

Available Countries:

Name
SUDAN
SURINAM
SVALBARD AND JAN MAYEN
SWAZILAND
SWEDEN
SWITZERLAND
SYRIAN ARAB REPUBLIC
TAIWAN, REPUBLIC OF CHINA
TAJIKISTAN
TANZANIA, UNITED REPUBLIC OF

Add >>

<< Remove

Name
CUBA
IRAN
KOREA, NORTH
SUDAN
SYRIAN ARAB REPUBLIC

- 1) Check the box “Enable Denied Party Screening” to activate the options below. These options include screening entities against the U.S. government list and screening for banned countries that you configure here.
- 2) Configure when the system performs the screening by setting these options:
 - Screen new entities/contacts when creating them: This option tells the system to screen any new entity or contact as their profile is created.
 - Screen entities/contacts when editing them.

- Screen shipments before filing to AES: This option tells the system to screen the entities in shipments before sending the EEI to AES.

You can also screen manually at any time by right-clicking an entity.

If you want the system to display the results after screening, check the box “Always confirm screening results.”

Set the “Minimum Threshold Acceptance” to configure how accurate the system will perform the screenings. If set to “Exact Match” then the system will only find those entities with exact spelling match. This will not find an entity spelled one way in your Magaya system but a different spelling in the government list. For example, if a company spells its name “Cargo de Miami”, but you enter “Cargo of Miami”, the system will not match this name. To enable it to search for similar names and avoid missing an entity due to misspelling or spelling variation, set the threshold to “Fair Match.” This will result in a larger results list that you can check.

Set “Days to validate since last check” by selecting a number from the dropdown. This is the number of days the screening will be considered good, i.e., valid. This setting depends on how often your company exports. Since the screening service is charged per entity, determine how often you need the screening performed. If you select 30 days, and you add a new entity to your system, that entity will be screened but others will not. You will only be charged for new entities during this time period.

- 3) Select banned countries: This setting varies, depending on the country in which your company is based. In the United States, the U.S. Department of the Treasury’s Office of Foreign Assets Control (OFAC) determines which countries are banned. When you add countries to this setting, your system scans shipments to verify if any entities are in these banned countries. Your Magaya system will scan this list first when you tell the system to screen entities or screen a shipment. It will notify you if it finds one of these countries and display that notification in a dialog box.
- 4) Save the configuration.

For full details about running the screening process on shipments, entities or vessels, please see Chapter 16 in the *Magaya Software Communications Manual*.

Form Filling

The Form Filling options enable you to set how much detail you want to appear on the forms listed in this screen:

Form Filling

— Filling details —

☐ Expand Air Way Bill details

☐ Expand Bill of Lading details

☐ Show Container details

☒ Expand Cargo Manifest details

☐ Show Warehouse Receipts in Cargo Manifest

☒ Fill documents using accounting info

☒ Show items dimensions in Master Air Waybill

☐ Show items dimensions detailed

☐ Use item notes as Marks and Numbers in BL

— Air Waybill Weight unit —

☐ Kilograms (Kg)

☐ Pounds (Lb)

☒ Both (Kg & Lb)

— Bill of Lading Weight unit —

☐ Kilograms (Kg)

☐ Pounds (Lb)

☒ Both (Kg & Lb)

This Form Filling option is available in the Magaya Supply Chain Solution, Magaya Cargo System, and the Magaya Commerce System.

Check the following boxes to activate these choices:

- **Expand Air waybill details:** This will show one line per item in a shipment. For this option to work, you must uncheck the option “Fill documents using accounting info”. If you leave this unchecked, you will only have a summary of the details that was entered in the “Description of Goods” field on the General tab of the shipment.
- **Expand Bill of Lading details:** This will show a line in the Bill of Lading per item of the shipment. Checking this box will activate the “Show Container details” option and then it will show one line per item in the container.

See also the “Ocean” configuration setting for more options.

- **Expand Cargo Manifest details:** This will show complete addresses of entities in the cargo manifest.

- Show Warehouse Receipt numbers in Cargo Manifest: This is unchecked by default.
- Fill documents using accounting info: This will use information in charges to fill operations documents such as the Air Waybill or Bill of Lading.
- Show items dimensions in Master Air Waybill: This will show a line with the maximum dimensions of the pieces in the shipment (Pieces x Length x Width x Height) per IATA specifications. It also has a second option to show items dimensions detailed, which will show the dimensions per each line in the shipment on the Air Waybill.
- Use item notes as 'Marks and Numbers' in BL (Bill of Lading). This will use any notes entered about an item on the Commodity dialog box inside the Commodities tab. You can use the Notes field or Notes tab while you are working on a transaction.

The screenshot shows the 'Warehouse Receipt' dialog box with the 'Commodities' tab selected. The main dialog has tabs for General, Shipper/Consignee, Supplier, Carrier, Commodities, Charges, Events, Attachments, and Note. The 'Commodities' tab is active, showing a table with columns: Status, Package, Description, Pieces, Length, Width, Height. The first row shows 'Pending', 'Box', 'bicycle tires', '26', '36.00'. A 'Commodity' sub-dialog is open, showing the 'General' tab. It has fields for Description (bicycle tires), Package Type (Box), Location, Pieces (26), Dimension (L x W x H) (36.00 x 6.00 x 36.00), Weight (4.00 lb), Volume (4.50 ft³), and a 'Notes' field. A callout points to the 'Notes' field in the sub-dialog, and another callout points to the 'Notes' tab in the sub-dialog's tab bar.

Other options in the Configuration menu enable you to set the weight units for Air Waybills or Bills of Lading. You can choose Kilograms, Pounds, or both. The default is set to the use "Both". These units are only for the Air Waybill and Bill of Lading and has no relation to the Measurement Units for a shipment.

Note: The Form Filling options dialog box is also available in the Shipment screen by clicking the button "Settings". The Settings button can be used to change units per transaction if needed. Otherwise, the units are set globally here in this Configuration menu.

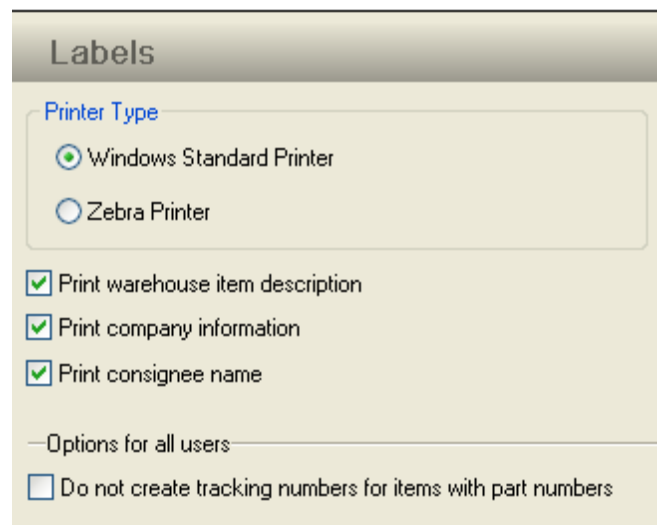
Click the Save or Reset button.

Labels

Use this option to set the printer for Magaya Explorer. If you are using a Zebra (Eltron) printer model 2742, 2842, 2844, you can select the Eltron printer from this option so the labels will print faster.

This option also enables you to set the information you want printed on labels:

- Warehouse item description
- Company information
- Consignee name



The screenshot shows a dialog box titled "Labels". It contains a "Printer Type" section with two radio buttons: "Windows Standard Printer" (selected) and "Zebra Printer". Below this are three checked checkboxes: "Print warehouse item description", "Print company information", and "Print consignee name". At the bottom, there is a section "Options for all users" with an unchecked checkbox "Do not create tracking numbers for items with part numbers".

If you do not want tracking numbers created when printing labels with part numbers, check the box.

When you select the Print Labels options from the Magaya Explorer Print button, the print dialog box opens and gives you options for label sizes and quantities. For more details on the print button options, see Chapter 5 of the *Magaya Cargo System Operations Manual*.

Measurement Units

With this option, you can set the measurement units for all transactions to use the metric system or imperial units.

Use the dropdown menus to select the measurement units and the decimal place for length, area, volume, weight and volume weight. For example, Length can be set to Inches (in), Feet (ft), Millimeters (mm), Centimeters (cm), or Decimeters (dm).

Measurement Units

Length
 Inch(in) 0.00

Area
 Squared foot(ft²) 0.00

Volume
 Cubic foot(ft³) 0.00

Weight
 Pound(lb) 0.00

Volume Weight
 Volume Pound(Vlb) 0.00

Volume Weight Dimensional Factor : 166.00 [in³ / lb]

Notes: The measurement units set here will be used as the default for all new transactions. If they are set from the Charges tab in a Pickup Order, Warehouse Receipt, or Cargo Release, those units will only affect that individual transaction. The Measurement Units options dialog box is also available in the Shipment screen by clicking the “Settings” button. Using the Settings button changes the units for that transaction only.

Click the Save or Reset button.

Transaction Tracking

The Transaction Tracking plug-in feature enables you to allow your customers to track their transactions. An email with a link is sent to your customer for each transaction. The customer clicks on the link and views the current status of the transaction in real time.

You can configure your Magaya software with options such as to send an email to a customer automatically whenever a transaction is generated in the Magaya software, or send an email message only when you want one sent. You can also customize the message in the email or create a template.

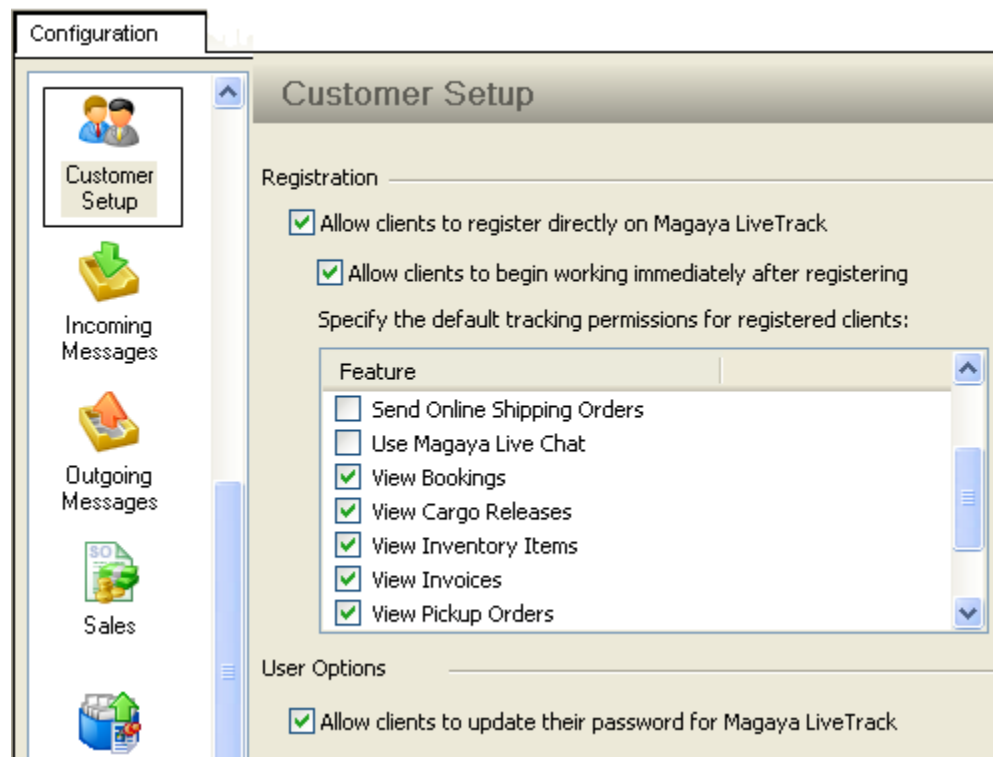
For more details, see the *Magaya Software Communications Manual*.

Customer Setup: For LiveTrack and Account Numbers

There are options available to give your customers the choice to register themselves online and to change their passwords themselves, without you having to do it for them (available in Magaya LiveTrack version 2.0 and higher). This is especially useful for couriers and others with many customers who want to track packages online.

Steps to allow customers to register themselves:

- 1) Go to Maintenance > Configuration > Customer Setup: Click the checkbox “Allow clients to register directly on Magaya LiveTrack”.



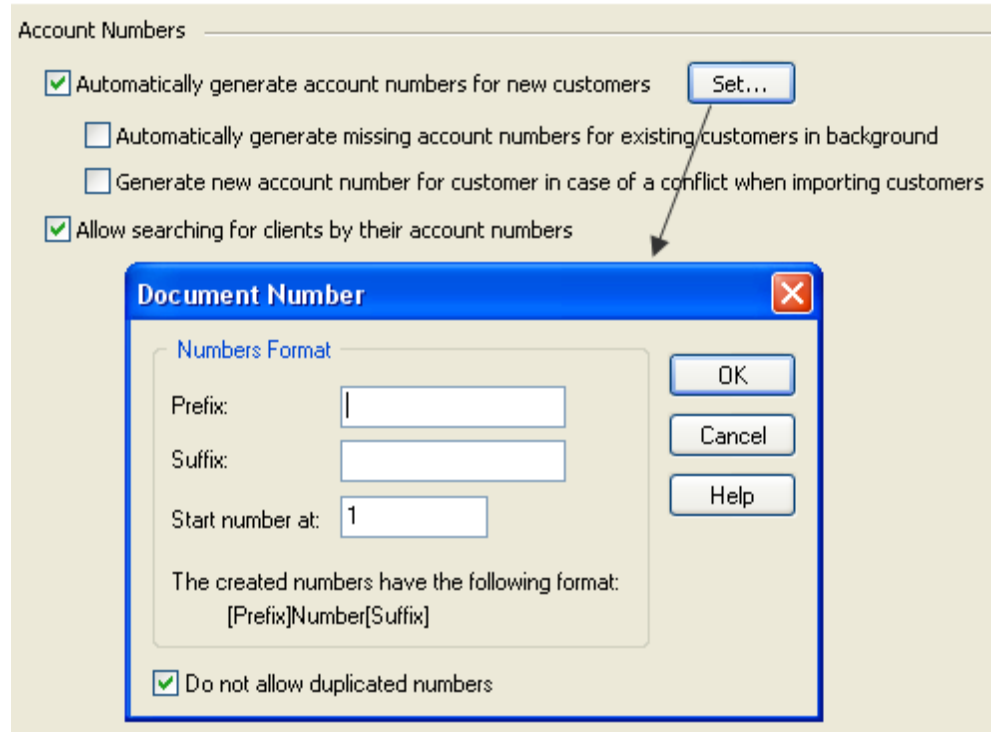
If you want customers to be able to use LiveTrack as soon as they register, check this box. If not, you will need to manually enable their access from the Customer list by right-clicking on their name and selecting “Web Track User List” and unchecking the “Disable” checkbox in the dialog box.

- 2) Specify the permissions by checking the boxes for the functions you want the users to have access to. Some functions are checked by default. This sets system-wide preferences; to change it per customer, go to the Customer list, right-click on their name and select “Allow Tracking.”

- 3) Allow your customers to be able to update their passwords online themselves by checking the box to “Allow clients to update their password for Magaya LiveTrack.”

Account Number Options:

- If you want the system to automatically generate account numbers for **new** customers, click the “Set” button. In this dialog box, set the options for a prefix, suffix, and a starting number. Click OK to save. Go to the Customer profile to view the number.



Note: When you create a new customer in your Magaya system **manually yourself**, an Account Number will be automatically filled in on the General tab. Then you will need to Allow Tracking for that customer by right-clicking on their name and creating a password for them. Then notify them of their access to the system via one of the email templates.

- If you want the system to automatically generate account numbers for **existing** customers who do **not** have account numbers, check the box. This process will occur in the background, and you can continue working while it is being done. How long it will take depends on the quantity of customers in your Customer List.

Result: The customer can log into LiveTrack with their user name or account number.

- If you import customer names via API or other import method, you can tell the system to generate new account numbers in case there is a conflict.

- If you want your staff to be able to **search** for customers in your Magaya system by using the customer's account number instead of their name, check this box to "Allow searching for clients by their account numbers." For example, this is useful when creating a shipment or other transaction; when selecting the customer name from the dropdown list, you can type in the account number also, and the system will find the customer and fill in the field.

Note: Details on how to use LiveTrack are in the *Magaya Software Communications Manual*, Chapter 5. To activate the LiveTrack option, contact your Magaya Logistics Advisor.

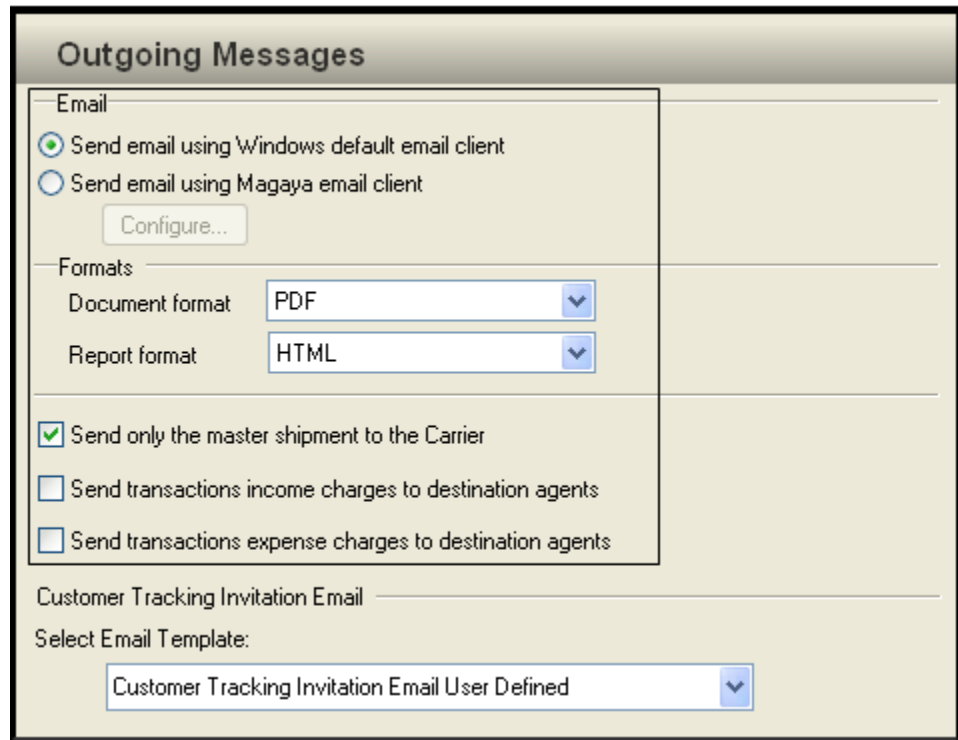
Incoming Messages

These options tell the system if you want to automatically save messages and what folder to place them in. The automated saving function is checked and active by default. If you uncheck a Save button, the system will prompt the user if they want to save each document received.

For more details, see Chapter 7 in the *Magaya Software Communications Manual*.

Outgoing Messages

The Outgoing Messages screen provides setup options for sending email messages, shipment, and charges information. Settings made here will affect all Magaya users of the same database.



The screenshot shows the 'Outgoing Messages' configuration window. It has a title bar with the text 'Outgoing Messages'. Inside, there are several sections: 'Email' with two radio buttons ('Send email using Windows default email client' is selected) and a 'Configure...' button; 'Formats' with two dropdown menus ('Document format' set to 'PDF' and 'Report format' set to 'HTML'); three checkboxes ('Send only the master shipment to the Carrier' is checked, the other two are unchecked); and a 'Customer Tracking Invitation Email' section with a 'Select Email Template:' label and a dropdown menu showing 'Customer Tracking Invitation Email User Defined'.

The Magaya email client must be used if you use the email templates. This screen also enables you to set the default email signature for outgoing email messages. It can connect to any email provider. For details, see Chapter 7 in the *Magaya Software Communications Manual*.

Sales

The Sales configuration screen enables you to set up the following options:

Sales

- ☒ Allow to create sales orders with backordered items
- ☐ When the orders are fulfilled give priority to inventory within the same location
- ☐ Fulfill orders using inventory in the specific division
- ☐ Allow to create sales orders with clients as sellers
- ☐ Do not release items that have not been invoiced
- ☐ Do not release items that have not been paid

Enter general commissions for inventory sales Commissions...

When viewing items in sales orders

- ☒ Use detailed view
- ☐ Use summarized view

Locations allowed for sales orders allocation:

Location Type
<input checked="" type="checkbox"/> Storage
<input type="checkbox"/> Receiving
<input checked="" type="checkbox"/> Shipping
<input checked="" type="checkbox"/> Quality Control
<input checked="" type="checkbox"/> Other

Pricing Engine _____

☐ Enable Pricing Engine

Drop Shipping _____

☒ Allow Drop-Ship orders on outgoing shipments

- Allow the create sales orders with backordered items: This means sales orders can be created even when you don't have items on hand in inventory
- When the orders are fulfilled, give priority to inventory within the same location
- Fulfill orders using inventory in the specific division: If you have more than one warehouse
- Allow to create sales orders with clients as sellers: The Seller field can be the Customer on the Sales Order. This is useful for 3PL companies that are managing only the orders for their customers.

- Do not release items that have not been invoiced: When selecting this, another option becomes available: the option to not release items that have not been paid.

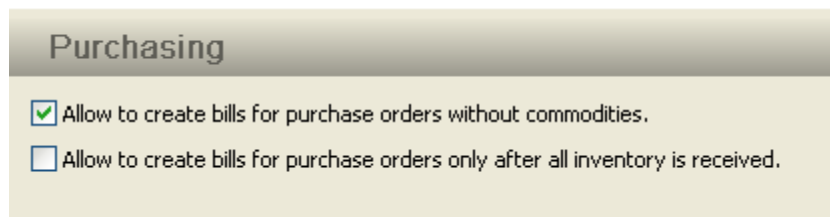
Enter general commission for inventory sales: This sets up a commission amount system-wide for any salesperson who sells any inventory item. To set commissions per salesperson, go to the Maintenance folder > Salespersons. To set a commission for one inventory item at a time, go to the Warehousing folder > Inventory Item Definitions. These options are available in the Magaya Supply Chain Solution.

Additional configuration options related to selling items:

- When viewing items in sales orders, select a detailed view or a summarized view. The Detailed view displays more details about the items in a transaction such as a Sales Order, including an image, if one is saved in the Inventory Item Definition. See an example in “Chapter 10: Create Sales Orders” in the Magaya Supply Chain Solution user manual.
- Locations allowed for Sales Order allocation: Select the locations to make available when adding items to sales orders
- Pricing Engine: Check this to enable pricing tiers. For details, see the topic on “Price Rules and Price Management” in the Magaya Supply Chain Solution user manual.
- Allow Drop Ship orders on outgoing shipments: Check this box to allow your system to place items that are in an “Ordered” status into outgoing shipments. Learn more about drop shipping in the topics on Sales Orders and Purchase Orders, available in the Magaya Supply Chain Solution user manual.

Purchasing

Configure your system to determine when a bill can be created from a PO:



Purchasing

☒ Allow to create bills for purchase orders without commodities.

☐ Allow to create bills for purchase orders only after all inventory is received.

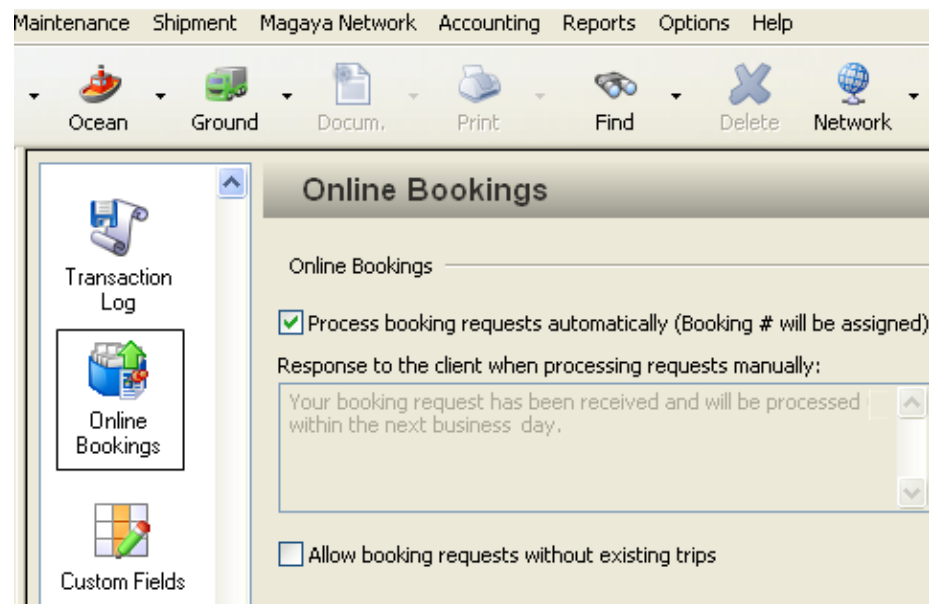
- Allow to create bills for Purchase Orders without commodities: Check-mark this option to allow users to create Bills for a POs that don't have any commodities, but may have other charges. This is useful to keep track of

items such as office supplies purchased. The PO status will be “Open” (not “Empty”).

- Allow to create bill for Purchase Orders only after all inventory is received: The commodities must be On Hand to create the Bill.

Online Bookings

Use “Online Bookings” when you are accepting online bookings from customers. Here you can determine if you want to assign a booking number to a booking request or not and if you want to allow bookings even if you do not have an existing trip set up in your Magaya Explorer.



The Online Bookings feature is available for all Magaya software. *Note:* This configuration is one part of the process required to give your customers access to make their own booking requests online. Additional information about using the Online Bookings screen is available in the *Magaya Software Communications Manual*.

Online Payments

There are two ways to manage payments online: via First Data or PayCargo.

To give your customers the option to pay you online by e-check (ACH) configure the online payment option for the service provider PayCargo.

To give your customers the option of paying their invoices with a credit card, configure the First Data section of the screen.

Configure PayCargo:

PayCargo is a service provider which is designed specifically for freight forwarders and others in the shipping industry.

Check the box on this screen to enable online payments via PayCargo, and select the accounts you want used for the invoice payments (deposits) and fees:

Online Payments

☒ Enable Online Payments with PayCargo (At this moment for USD only) www.PayCargo.com

Invoice payments

Bank Account: Bank Account

Service fees

Bank Account: Bank Account

Expense Account: Payments Processing Fees

Service Provider: PayCargo LLC

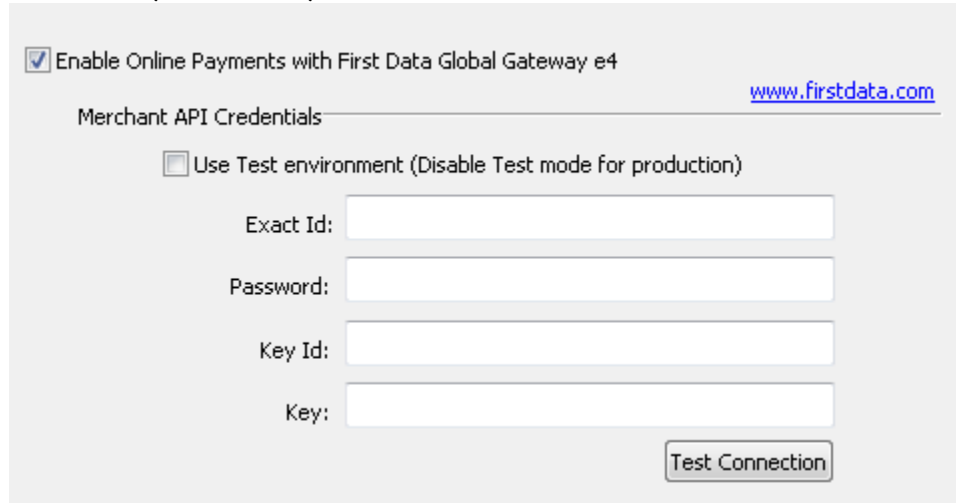
- When you select the bank account for the Invoice Payments, then all payments received will be posted to this account.
- The Bank Account for the Service Fees is the account that all service charges will go to.
- The Expense Account is for the processing expenses. When you create a Profit & Loss statement, the processing expenses will appear on the report under this expense account.
- The Service Provider of PayCargo LLC is set in the system by default.

Next you and your customers must register with www.PayCargo.com.

Configure First Data:

Check the box to enable online payments with First Data.

If you don't have a First Data account, click the link to their website to create one. They will give you the details to enter into the Magaya screen: the Exact ID, Password, Key ID and Key.



The screenshot shows a configuration window for online payments. At the top, there is a checked checkbox labeled "Enable Online Payments with First Data Global Gateway e4" and a link to www.firstdata.com. Below this is a section titled "Merchant API Credentials". Inside this section, there is an unchecked checkbox labeled "Use Test environment (Disable Test mode for production)". Below the checkbox are four text input fields labeled "Exact Id:", "Password:", "Key Id:", and "Key:". At the bottom right of the form is a button labeled "Test Connection".

Note: The Test environment is only for testing the system. Leave this box unchecked.

After you enter the data, the system will test your Magaya account and your First Data account.

Click the Save button.

Next, you will need to enter the customer's credit card information in their Customer profile. Then the credit card can be applied to invoices. For details on how to use the online payments feature, see the chapter on online payments in the *Magaya Software Communications Manual*.

Online Sales Orders

To offer your customers the option to buy inventory from you online, you can set up your system for online sales orders.

This feature requires this configuration setup and the creation of inventory categories in the Inventory Organizer (under the Warehousing folder). Each

customer must have tracking enabled in their profile. See the *Magaya Supply Chain Solution Manual* for details.

- 1) Check the box to allow online sales orders, and then choose your preferences:

Online Sales Orders

☒ Allow Online Sales Orders

☒ Allow back-orders when no inventory is available

☒ Create Purchase Orders for preferred vendors automatically

☒ Allow client invoice generation automatically

☒ Allow orders to be posted in home currency only (Home Currency: USD)

☐ Generate charges automatically for Online Sales Orders

☐ Allow clients to cancel Online Sales Orders

☐ Create a Job for each Online Sales Order automatically

☒ Allow automatic release of the ordered commodities

☒ Create a Cargo Release (ground only)

☐ Create a Shipment

Save automatically created shipments in this folder

Select the modes of transportation you want to enable when posting Online Sales Orders

Description	Method
<input type="checkbox"/> Motorcycle courier	Unknown
<input type="checkbox"/> Bicycle Courier	Unknown
<input checked="" type="checkbox"/> Vessel	Ocean
<input checked="" type="checkbox"/> Vessel, Containerized	Ocean

Categories







Select the "Featured" category

- 2) Allow back orders of items. This gives you the option to let your customers place orders for items that are not currently on hand in your inventory. The backordered items are added to the "Backordered Items List". Details are in the *Magaya Supply Chain Solution Operations Manual*.

To create a Purchase Order automatically to buy the items from a preferred vendor, check the box.

- 3) Allow client invoice generation automatically: The system will create the invoice, transferring the details of the sales order into an invoice, and send it to the Invoices folder in your Magaya system.

- 4) Allow orders to be taken in your home currency only. If you uncheck the box, your system will accept orders in other currencies. Your system must be configured for multicurrencies (set in Maintenance > Configuration > Accounting).
- 5) Generate charges automatically for online sales orders: Check this box to enable the system to include charges on sales orders that customers place online (which the customer will see). To define which charges to automate, go to the Intems & Services list, and configure the charges there.
- 6) Allow your customers to cancel online sales orders: Check this box to activate this. (Available in Magaya software version 9.2+ and LiveTrack 1.0, as of the date of this documentation, March 2014). The customer can right-click on a sales order to cancel it. Note, if a Magaya user creates a S.O. in the Magaya Explorer (not online), the customer cannot cancel that S.O. (A Magaya user can cancel a S.O. via the Actions button or by right-clicking.) Any canceled S.O. will have a status of "Canceled" and display in the S.O. List. The items will be returned to inventory.

Sales Order List			
 Dates: All 		From: 9/25/20	
Status	Number	Date	Employee
 Canceled	35	09/25/2013	Administrator
 Loading	34	07/24/2013	
 Open	33	07/23/2013	Administrator
 Approved	32	03/04/2013	Administrator

Sales Orders that have already been canceled or contain items that have been canceled from a Purchase Order may not be canceled again. Sales Orders that have already been invoiced or loaded onto a shipment or cargo release cannot be canceled.

- 7) Automate Job creation in your Magaya system for each sales order posted. The system will automatically create a Job to track the progress of all transactions related to the job such as invoices, sales orders, etc. This will link the sales order and the items inside it to the Job.
- 8) Allow automatic release of the ordered commodities, and define the type of release to be created automatically: a Cargo Release or a shipment will be created in the system.
- 9) Save the shipments in a folder you specify when you select the option "Create a Shipment". Then click the "Select" button to open a list of folders so you can navigate to the folder of your choice.
- 10) Select the modes of transportation for the orders. These modes will be visible to online users in Magaya LiveTrack.

Feature a Category: After you create categories for inventory in the Inventory Organizer (found in the Warehousing folder), you can select a category here to feature it in the Online Sales Order screen in Magaya LiveTrack. This will display only this “root” category and its subcategories. This is useful if you create internal categories such as commissions that you do not want to be visible to customers online. This is optional and can be changed at any time.

To notify your customers that their online order was received and is being processed, go to the Email Templates or System Alerts configuration screen to choose the option you prefer.

Online sales orders is available in the Magaya Supply Chain Solution and the Magaya Commerce System.

For more details, see the *Magaya Software Communications Manual*.

Online Shipping Orders

To give your customers the option of sending you shipping instructions online via Magaya LiveTrack, set up the option in the Configuration menu:

Description	Method
<input type="checkbox"/> Pedestrian	Ground
<input type="checkbox"/> Road, Other	Ground
<input checked="" type="checkbox"/> Air	Air
<input checked="" type="checkbox"/> Air, Containerized	Air

Save shipments in this folder

- Check the box to allow online shipping orders (shipments and cargo releases).
- Select the modes of transportation you want to enable.
- If you want to save the shipments in a different folder in your Magaya system other than the existing one, click on the “Select” button to navigate to the folder you want.

This configuration screen also offers options for online pickup orders.

Online shipping orders is available in the Magaya Supply Chain Solution and the Magaya Cargo System.

Save your settings. Details on how to use the online shipping orders feature are available in the *Magaya Software Communications Manual*.

US Customs Systems

The US Customs and Border Protection (CBP) options in Magaya software provide fields to enter Automated Manifest System (AMS) codes, Automated Export System (AES) login information, and the Automated Brokers Interface (ABI) that is integrated with the SmartBorder system.

After you set up your Customs information in the Configuration menu, it will fill in automatically in shipment documents.

US Customs features are available in the Magaya Supply Chain Solution and the Magaya Cargo System.

For more details, see the *Magaya Software Communications Manual*.

Express Link

Magaya Express Link plug-in enables you to request package shipments from carriers such as UPS and FedEx. It needs to be activated in your Magaya account and configured in your Magaya system. Full configuration steps are explained in the *Magaya Software Communications Manual*.

WMS

The WMS configuration section contains settings to start using the Magaya WMS Mobile plug-in application. The screen contains the following options:

WMS

Pallet IDs...

Used to configure the generation of Pallet IDs

WMS Mobile Units...

Used to configure the measurement units for the WMS Mobile users

Warehouse Equipment...

Used to configure the type of equipment used by the warehouse personnel

WMS Mobile Users...

Used to configure the permissions, printer configuration, etc. of the WMS Mobile users

Counts Numbers...

Used to configure the generation of numbers for count sessions

Operations Settings...

Used to configure the behaviour of the operations in the WMS Mobile

Default package type for new pallets:

Pallet

☐ Keep Inventory by Serial Number

☐ Save Serial Number When items go out

☐ Enable initial inventory for WMS Mobile users (Only for Magaya Cargo System Users moving to Magaya WMS)

☐ Inventory will be closed on or before this date.

7/24/2013

☐ Create pallets outside Warehouse Receipts in WMS Mobile Manual Receive

☐ Verify items after batch pick

Inventory Adjustment Account:

Inventory Adjustment

Scrapped Inventory Account:

Scrapped Inventory

Inventory Adjustment Vendor:

Inventory Adjustment Vendor

Inventory Adjustment Client:

Inventory Adjustment Client

☐ Define maximum number of charges per inventory adjustment transaction

0

 charges

☒ Start inventory adjustment wizard when count session is closed

These details are explained in the Magaya WMS Operations Manual and in the *Magaya Supply Chain Solution Manual*.

POD Mobile

Use the POD Mobile option to configure the settings for the Proof of Delivery (POD) Mobile application. This application is used by delivery drivers so they can collect signatures when they deliver goods. The application provides a list of tasks, a description of the cargo to be delivered, the address and a map. It can be used on wireless handheld devices and smart phones.

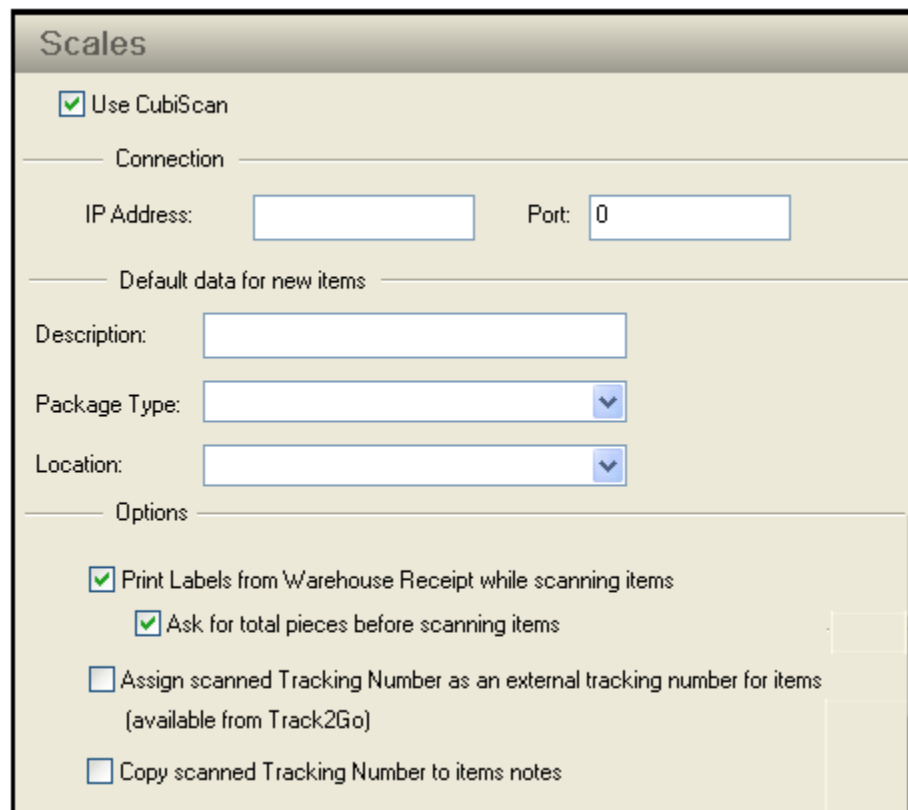
For more details, see the *Magaya Software Communications Manual*.

Scales

This option is a Magaya Plug-in application called Magaya Scale Integration. It is designed to connect a scale to your Magaya system so you can weigh and measure packages quickly.

The CubiScan scales are the only manufacturer that is currently integrated with Magaya software.

Contact Magaya to activate this plug-in and discuss installing and connecting the scale to your Magaya system. You will need the IP address to assign to the scale and the Port.



The screenshot shows a configuration window titled "Scales". It contains several sections for setting up a scale integration:

- Use CubiScan:** A checkbox that is checked.
- Connection:** A section with two input fields: "IP Address:" and "Port:". The "Port:" field has the value "0".
- Default data for new items:** A section with three input fields: "Description:", "Package Type:", and "Location:". The "Package Type:" and "Location:" fields have dropdown arrows.
- Options:** A section with four checkboxes:
 - ☒ Print Labels from Warehouse Receipt while scanning items
 - ☒ Ask for total pieces before scanning items
 - ☐ Assign scanned Tracking Number as an external tracking number for items (available from Track2Go)
 - ☐ Copy scanned Tracking Number to items notes

Check the box to “Use CubiScan”. The other fields will be activated. Enter the IP address and port that you set when installing the CubiScan software. This enables the Magaya system to connect with the CubiScan scale and retrieve the data about the weighed items.

Default Data for New Items: (these fields are not required): The fields for the default data of new items are used when you receive items and the system will create the item in the Warehouse Receipt. If you enter a location, then the system will place the items in “On Hand” status. The Location name can be the Weigh Station, for example. Then a “Move” Task can be created to move the items to the racks. These fields are optional.

Options:

To print labels as the items are scanned in, check the box for printing labels. The system will print a label for every scanned item so the labels can be placed on the boxes right away.

- Ask for total pieces before scanning items: Check this option to speed up receiving. This will enable users to print labels that are numbered to indicate the number of each piece of the total pieces such as Box 1 of 4, Box 2 of 4, etc.

Assign scanned Tracking Number as an external tracking number for items: This option is useful when receiving items from UPS or FedEx. Then the end customer can track the item by this tracking number when they use the Magaya mobile app, Track2Go. This tracking number will also be searchable within your Magaya database.

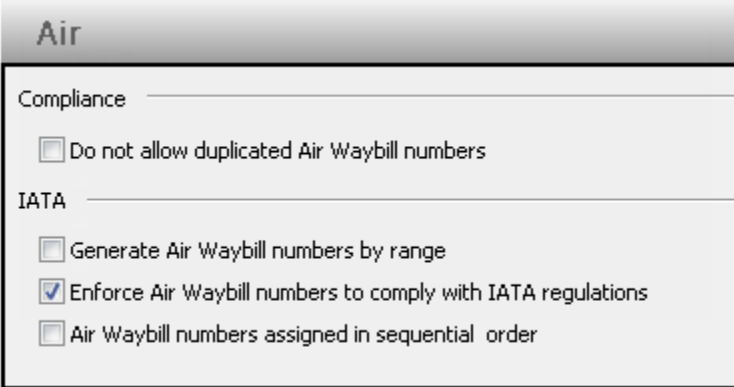
Copy scanned Tracking Number to item Notes: This will add the number to the Notes field. You don’t have to open the item to add it.

Air

To comply with IATA regulations, set the following configuration options as needed for your company.

Each setting will change the way your system handles Air Waybill (AWB) numbers. Verify your needs before making changes. Changes will be reflected

in the Carrier's profile (in the Maintenance folder) and/or in the air shipment wizard as explained below.



The screenshot shows a configuration window titled "Air". It contains two sections: "Compliance" and "IATA".

Compliance

- ☐ Do not allow duplicated Air Waybill numbers

IATA

- ☐ Generate Air Waybill numbers by range
- ☒ Enforce Air Waybill numbers to comply with IATA regulations
- ☐ Air Waybill numbers assigned in sequential order

- Generate Air Waybill numbers by range: Use this option when an air carrier sends you a batch of AWB numbers.
 - a) Check this box and save this setting.
 - b) Go to the Carrier's profile > the "Airline" tab > click the "Add" button to add AWB numbers. A dialog box opens. The system grays out all the options except for the setting you made in the Configuration screen. Enter the beginning and ending range of numbers in the fields, and click the "OK" button to save. The system will generate the

numbers in the range for you. They will be displayed in the screen. The numbers will be available to use in air shipments.

Carriers

General Address Billing Address Other Addresses Contacts **Airline** Rates Ch. < >

IATA Account Number: FX

Airline Code: FDX ...

Airline Prefix: 123 Flights...

Air Way Bill Numbers

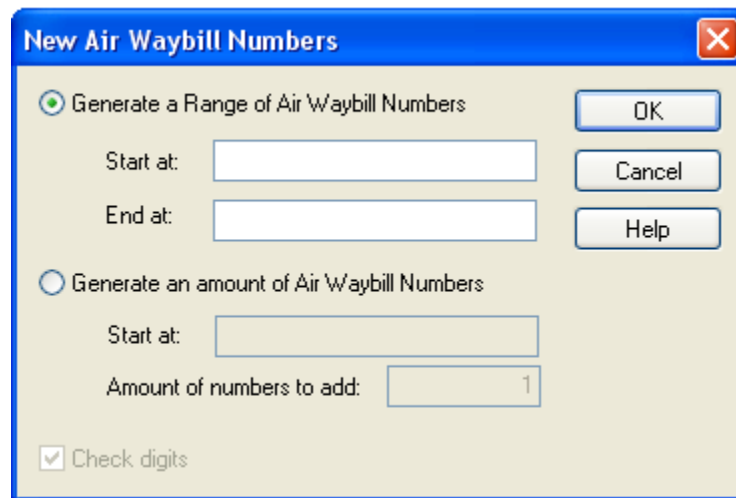
- 123-11111111
- 123-11111122
- 123-11111133
- 123-11111144
- 123-11111155
- 123-11111166
- 123-11111170
- 123-11111181
- 123-11111192
- 123-11111203

☐ This is a passengers only Airline

The other option on the dialog box is to "Generate an amount of Air Waybill Numbers". This allows the system to create the AWB numbers by starting at the number you define.

- Enforce Air Waybill numbers to comply with IATA regulations: This setting will disable a checkbox on the dialog box in the Carrier's profile > the "Airline" tab which opens when you click the "Add" button. This

checkbox is "Check digits". It will be grayed out. This forces compliance with IATA regulations.



New Air Waybill Numbers

☒ Generate a Range of Air Waybill Numbers

Start at:

End at:

☐ Generate an amount of Air Waybill Numbers

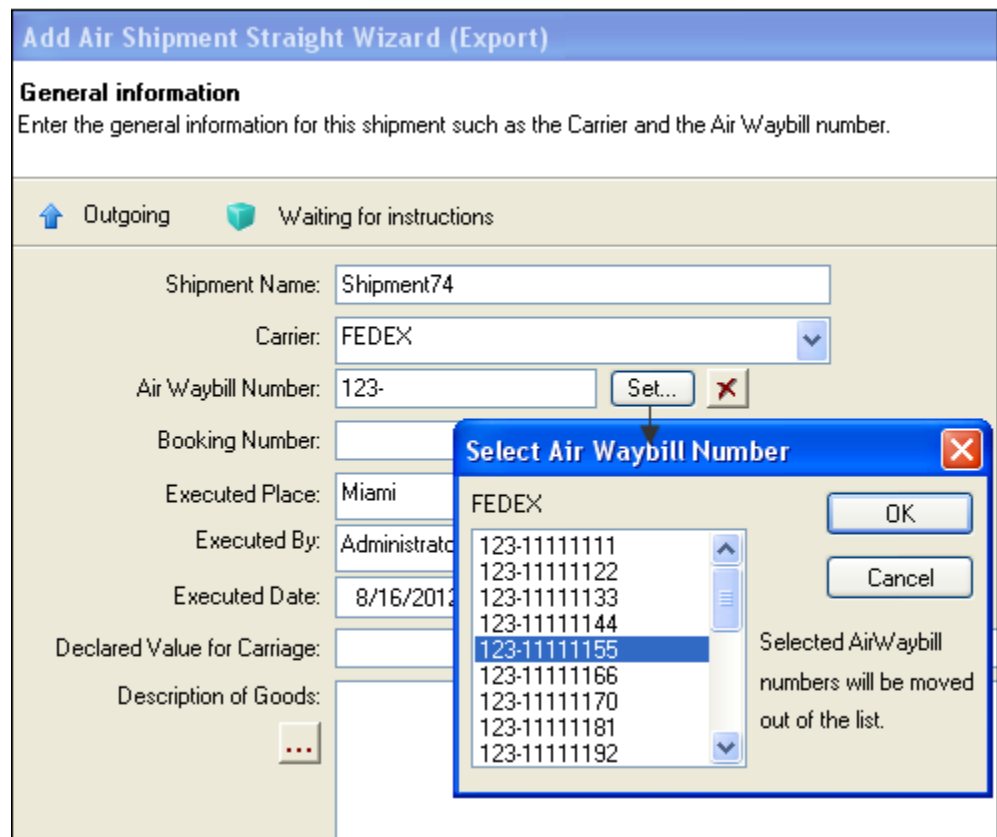
Start at:

Amount of numbers to add:

☒ Check digits

OK Cancel Help

- Air Waybill numbers assigned in sequential order: When you select this configuration, it will affect how AWB numbers are used when creating air shipments by forcing the system to use the next AWB number in the sequence. You will not be able to select an AWB number from a list. If you want to allow users to select any AWB number, do not check this box.



Add Air Shipment Straight Wizard (Export)

General information
Enter the general information for this shipment such as the Carrier and the Air Waybill number.

Outgoing Waiting for instructions

Shipment Name:

Carrier:

Air Waybill Number: Set... ☒

Booking Number:

Executed Place:

Executed By:

Executed Date:

Declared Value for Carriage:

Description of Goods:

Select Air Waybill Number

FEDEX

123-11111111
123-11111122
123-11111133
123-11111144
123-11111155
123-11111166
123-11111170
123-11111181
123-11111192

OK Cancel

Selected AirWaybill numbers will be moved out of the list.

Ocean

The following Configuration options are available for ocean shipments:

The screenshot shows a configuration window titled "Ocean". It has two sections: "Compliance" and "INTTRA".

Compliance

- ☐ Validate containers numbers
- ☐ Do not allow duplicated bill of lading numbers
- ☒ Include container waybill notes in bill of lading.

INTTRA

- ☒ Send alternate shipment identifier in INTTRA requests. (Recommended)
- ☐ Send container waybill notes in INTTRA requests.

- **Validate container numbers:** Check this option to ensure any container number entered is valid. The system will not accept invalid numbers.
- **Do not allow duplicate Bill of Lading numbers:** Check this option to ensure a duplicate Bill of Lading number is not entered into the system.
- **To include container waybill notes in the Bill of Lading,** select the option in this configuration screen.

Result: In a Shipment, the Container dialog box has a tab called "Waybill Notes." Click the button to add notes.

- If you have the connection with INTTRA, you can configure your Magaya system to send container waybill notes in INTTRA requests. You can also tell your Magaya system to send alternate shipment identifiers.

Ground

If you want to configure your Magaya system to prevent duplicating bill of lading numbers for ground shipments, check the box.

The screenshot shows a configuration window titled "Ground". It has a section: "Compliance".

Compliance

- ☐ Do not allow duplicated bill of lading numbers

Custom Fields

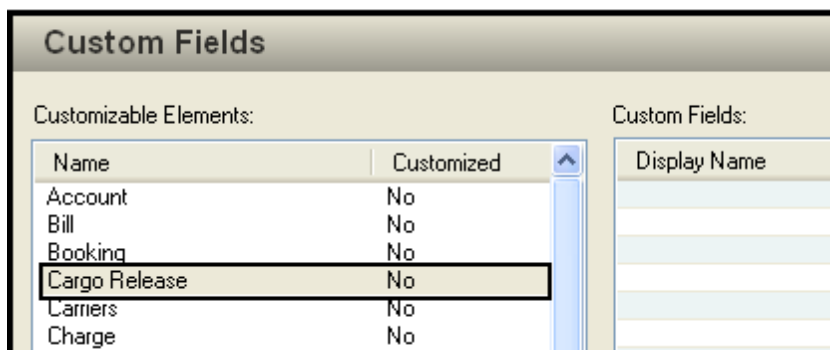
Custom fields can be added to any transaction and used in templates, lists, reports, combo boxes (dropdown lists), filters, when transmitting or converting transactions, export/import, and more.

[illegible]

Custom fields become available as a new tab in the transaction you customize, and appear in lists in Magaya Explorer. You can specify if you want the Custom Field to be visible to employees internally but not visible to customers.

To create a custom field, follow these steps:

- 1) In the list of Customizable Elements, select the element you want to customize such as Cargo Release, Invoice, or Warehouse Receipt.



- 2) Click the Add button. A dialog box opens; this is where you will enter the information for the custom field:

Custom Field Definition [Warehouse Receipt]

Display Name: Field Type:

Internal Name:

Description:

☐ Internal Use Only
☒ Allow to build reports by this field
☐ Field is inactive

OK Cancel Help

- 3) Enter a Display Name, for example, "Keys in Vehicle?" This name will appear in the reports and in transactions. (The Internal Name is assigned by the system.)
- 4) Enter a description (optional). This will not display on the transaction. This will explain when and why this question is used.
- 5) Select what type of field you want. Different options will display depending on which type of field you choose. These are the options for the types of fields:

- **Text** will allow text to be entered in the field. You can set the maximum number of characters. The default is 100.
 - **Integer** is used to enter a whole number.
 - **Decimal** will allow you to specify a number for the amount of decimal spaces. Use the Precision dropdown to select the decimal spaces. The default is two spaces.
 - **Pick List** will create a dropdown list with choices you specify.
 - **Yes/No** is used to answer yes or no questions.
 - **Date** can display the date field. To include the time, check the box “Date and Time.”
 - **Money** will allow you to specify a currency amount. Use the Precision dropdown to select the decimal spaces. The default is two spaces.
 - **Lookup** will allow the user to select from a dropdown list of the entities you set such as Customers, Forwarding Agents, Carriers, etc.
- 6) Check the box to “Allow to build reports by this field” to allow this custom field to be available in reports in Magaya software. Other options are:
- If you no longer need a field, there are two options: You can delete a custom field completely, or you keep it in your system but make it inactive. To deactivate a custom field, check the box “Field is Inactive”.
 - If you want to create a custom field for internal use only, check the box “Internal Use Only”. This will make the field visible for employees but not customers.

You can add as many custom fields as you need. When you are done, the custom field will appear as a tab in your transaction. This is a Warehouse Receipt dialog box with the Custom tab and custom fields:

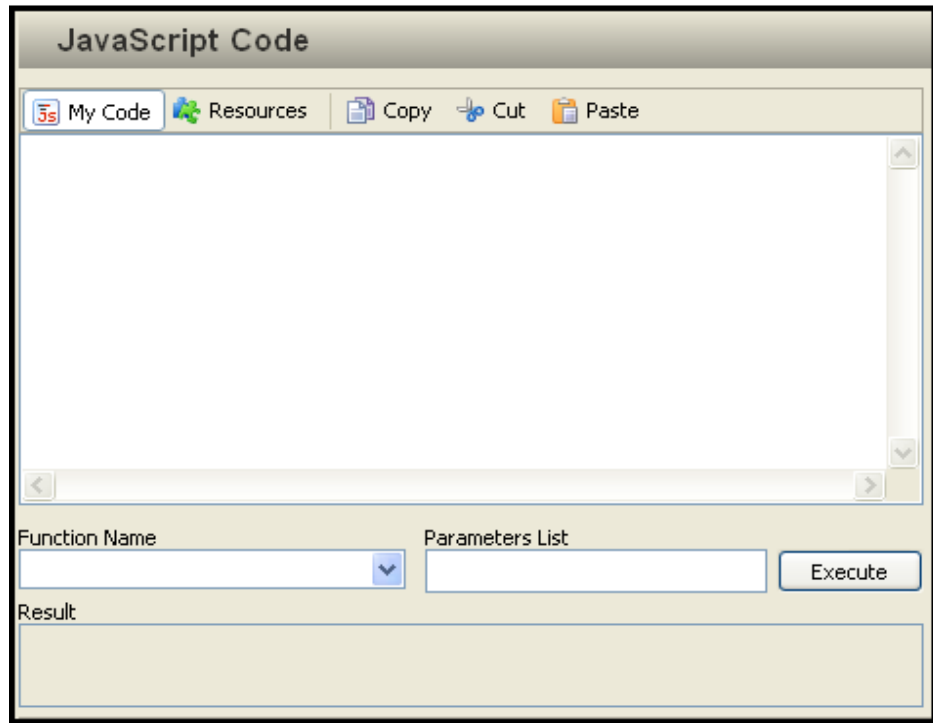
The screenshot shows a 'Warehouse Receipt' dialog box with a blue title bar and a close button. The 'Custom' tab is selected and highlighted with a red circle. The dialog contains several form fields: 'Vehicle Color Text Field' (text input with 'white'), 'Key in Vehicle?' (dropdown with 'Yes'), 'Third Party' (dropdown with 'Atlantic Surplus'), 'Vehicle Status' (dropdown with 'Title Received'), 'Is vehicle gas drained?' (dropdown with 'Yes'), and 'Date and Time Vehicle Received:' (checkbox, date '7/29/2009', and time '11:45:01 AM'). A red text overlay on the right says 'The new Custom tab with custom fields'. At the bottom are 'OK', 'Cancel', and 'Help' buttons.

Other options available in the Custom Fields configuration screen include the option to edit or delete a custom field, to move a field up or down (rearrange the order of the fields on a tab), or to import or export information in or out of Magaya Explorer. See Chapter 4 in this manual for more details.

JavaScript Code

JavaScript is a scripting language used in Web pages to add functionality, interactivity, validate forms, detect browsers, and more. It works in all major browsers. This function in Magaya software enables you to create a library of

scripts that you can use for functions such as calculating rates, customizing prices for your online store when you define an inventory item, etc.



The following buttons across the top of the JavaScript work area are:

- **My Code:** This is the work area where you can type in code.
- **Resources:** This is a library of source code of useful functions you can use.
- **Copy, Cut, and Paste:** These buttons work similar to other copy, cut, and paste buttons to allow you to copy, cut, and paste code.

The Function Name dropdown menu selects from Function names you have added to the system. If you have not added any, the list will be blank.

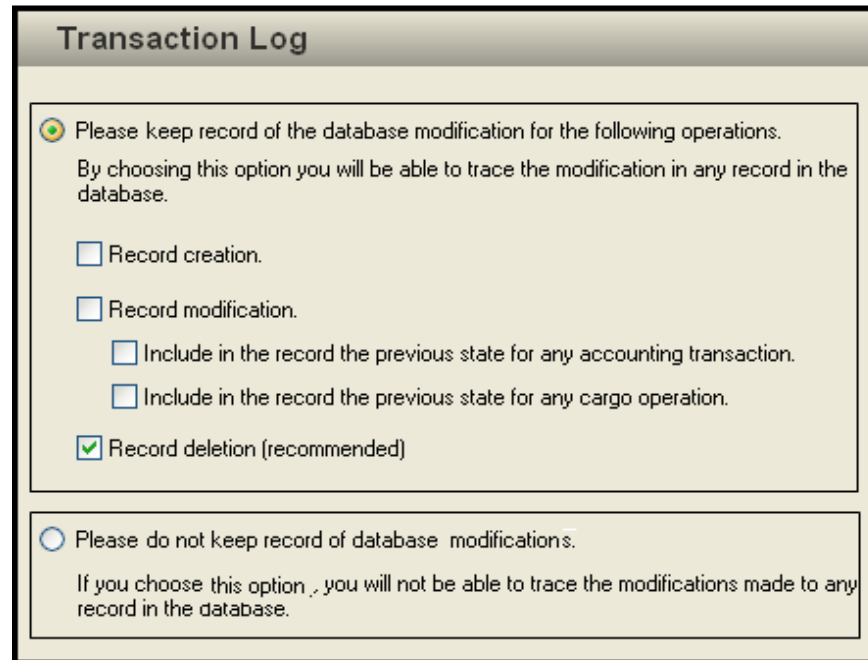
The Parameters List is a field that is used to enter the parameters for the function you want to test. Separate the parameters with commas.

Click on the Execute button to test your code.

The Result window at the bottom displays the result of the selected function executed with the above parameters. If there is an error, an error message will appear here.

Transaction Log

Use this option to tell the system to save a record of any changes made to transactions in Magaya Explorer. This will keep a history of what users have modified or deleted.



Transaction Log

☒ Please keep record of the database modification for the following operations.
By choosing this option you will be able to trace the modification in any record in the database.

☐ Record creation.

☐ Record modification.

☐ Include in the record the previous state for any accounting transaction.

☐ Include in the record the previous state for any cargo operation.

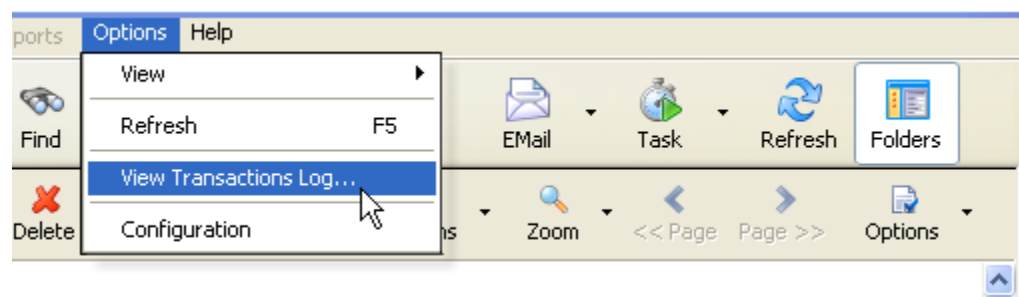
☒ Record deletion (recommended)

☐ Please do not keep record of database modifications.
If you choose this option, you will not be able to trace the modifications made to any record in the database.

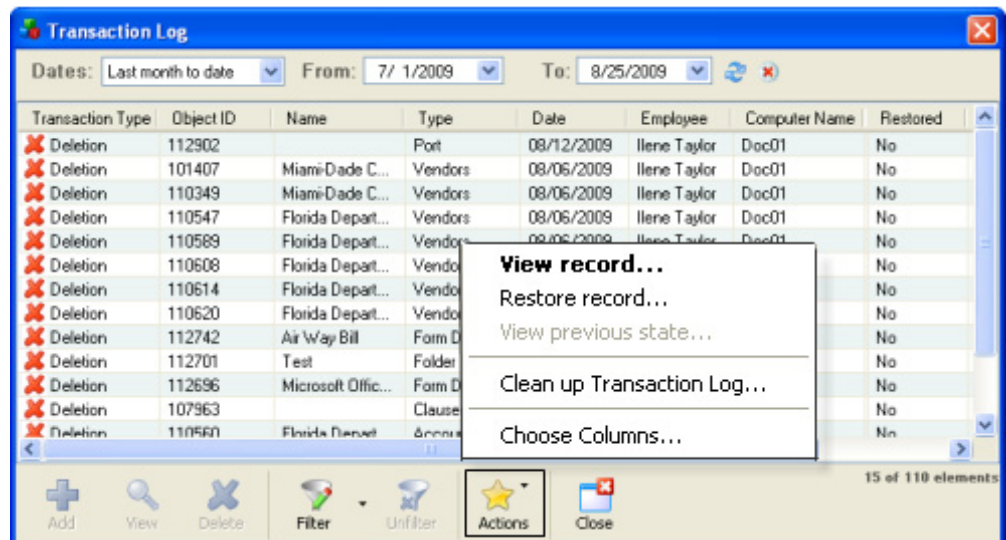
- The Transaction Log is set by default to keep a record of all deletions made to transactions. You can specify if you want to keep a record of the creation and/or the modifications.
- Check the boxes you want and then click Save (or Reset).

Any changes made to the configuration screen of the Transaction Log (or any configuration menu option) will be recorded in the log.

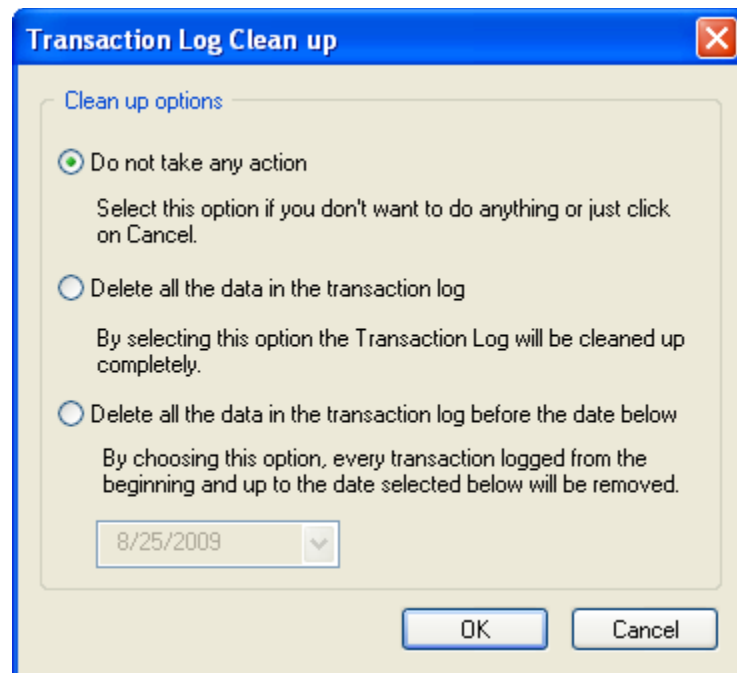
To view the Transaction Log, go to the Options menu on the top toolbar in Magaya Explorer. Select “View Transactions Log”.



The log opens, showing the type of transaction, its Object ID, the name or transaction number, the date, the employee, and more. The date range can be changed.



To view an individual transaction, select it, click on the Actions button and choose "View record". Other options in the Actions menu are Restore record, View previous state, Clean up Transactions Log, and Choose Columns. When you select the option to clean up the transaction log, a dialog box opens with options.

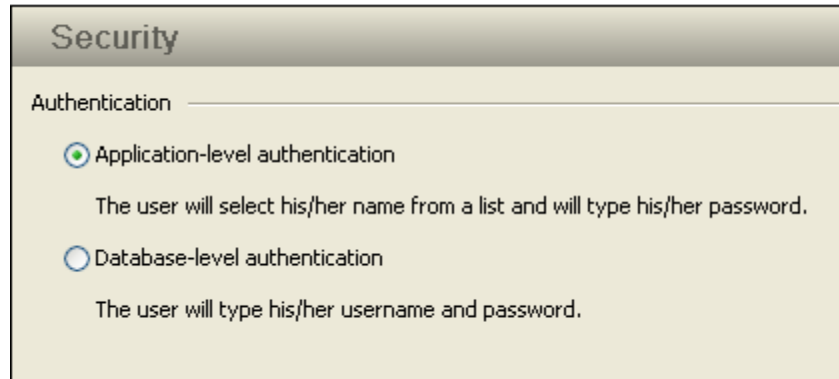


To maintain the Transaction Log, go to the Maintenance & Performance configuration option. In the "Recycling" section, click the "Configure" button and set the number of days to keep records in the Transaction Log. This setting

will remove the transactions from the log, but they will be saved in your backup files. This will help keep your database optimized and improve its performance.

Security

The Security configuration screen enables you to set the level of authentication for users when they log into the database.



- Application-level authentication: When users log in, they select their user name from a dropdown menu.



- Database-level authentication: This setting does not show a dropdown list of user names. This is a higher level of security.

Before performing this configuration, ensure you know your user name and password. When you log back in, you must type your user name and password.

All users must be logged off to set this configuration, except for the administrator performing this task. You must also exit from the Magaya Communication Server.

The Magaya Communication Server will also require user login credentials the first time you make this configuration change. Create a user in your Employee list for the Magaya Communication Server. Log in and then restart the Magaya Communication Server.

Then go to the Employee list and view each employee profile > User tab to see and make a note of the user name that the system created for you. Give this login information to each employee so they can log in with the new method.

Maintenance & Performance

This configuration screen provides optimization options you can choose as needed. These options are designed to improve the performance of your Magaya system.

The screenshot shows the 'Maintenance and Performance' configuration window. It is divided into three sections:

- Start up:** Contains one checked checkbox: 'Preload some entities at start up to improve the performance of the system.' with a 'Configure...' button to its right.
- Attachments & PDF Options:** Contains three checkboxes: 'Optimize image for the Web' (unchecked), 'Ask to optimize image' (unchecked), and 'Use B&W colors for PDF background image' (checked).
- Recycling:** Contains three checked checkboxes: 'Allow the system to recycle some commonly unnecessary records.' (with a 'Configure...' button), 'Allow a background process to shrink the size of the historical data in the database. (recommended)', and 'Allow a background process to extract heavy-weighted data, like images and attachments, to an external File System Directory. (recommended)'.

- **Start up:** This option improves performance by pre-loading entities such as Customers and Vendors. If you have many entities, you can uncheck a box so that your Magaya Explorer starts faster. The entities unchecked will load as needed when you use that feature in the system.
- **Attachments & PDF Options:** Optimizing an image for the Web will reduce the file size so it is faster to email or download. If you want the system to ask about optimizing images first, check the boxes.

The system uses black and white colors for the background of PDFs as a default.
- **Recycling:** These options are explained in detail in Chapter 8, Magaya Database Administration. Please read all the steps in that chapter carefully before configuring the Recycling options.

Task Scheduling

This function is reserved for the system to schedule tasks such as checking with UPS or other carrier for updates if you are using Magaya Express Link. It also checks inventory stock levels if you set them up. In the future, other repeating tasks may be added.

Clauses

You can save clauses in Magaya Explorer for notes that you add frequently to transactions. For example, you may have a clause such as “Consolidation as per attached cargo manifest” that you add to master shipments. Save this clause or any others in your Clauses List and it will be available for use every time you need it.

Clauses can be added in the Configuration screen or while you are working in a transaction such as a Warehouse Receipt. This is the Configuration screen:

The screenshot displays the 'Clauses' configuration screen in Magaya Explorer. On the left is a sidebar with icons for Transaction Tracking, WMS, POD Mobile, Clauses (highlighted), Transaction Log, and Online Bookings. The main area shows a table of existing clauses:

Name	Category	Notes
Damaged items	Proof of Delivery	Damaged items
Missing items	Proof of Delivery	Missing items
Fragile Contents	Booking	Handle with Care
Invoice Payment Terms	Invoice	Invoices due within 30 days of
Consolidate per shipment	Shipment	Consolidate per shipment

Overlaid on the screen is the 'Clause Information' dialog box, which contains the following fields:

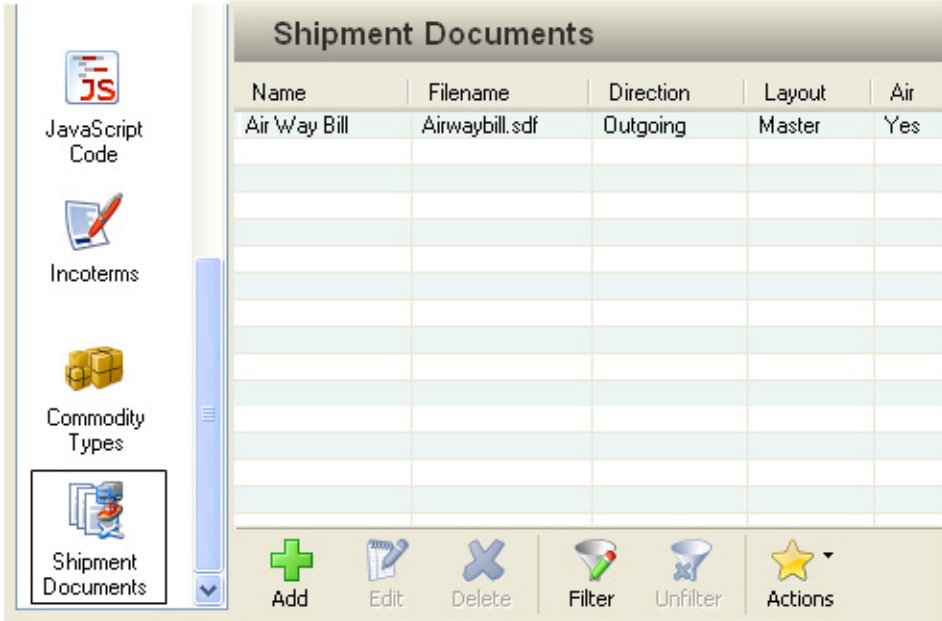
- Name:** Invoice Payment Terms
- Category:** Invoice (with a dropdown arrow, a red 'X' icon, and an ellipsis icon)
- Clause Text:** Invoices due within 30 days of invoice date

At the bottom of the dialog are 'OK' and 'Cancel' buttons. Below the dialog, in the main window's toolbar, is a green plus icon labeled 'Add', which is pointed to by an arrow from the dialog's title bar. Other toolbar icons include Edit, Delete, Filter, Unfilter, and Actions.

- Click on the Add button to open a dialog box where you can create a new clause.
- Enter a name for the clause and the Clause Text (a description). Also select the category from the dropdown. The Category list shows all the transactions you can add the clause to such as Warehouse Receipts, Invoices, Bills and more. To add a category not listed, click on the button with the three dots.

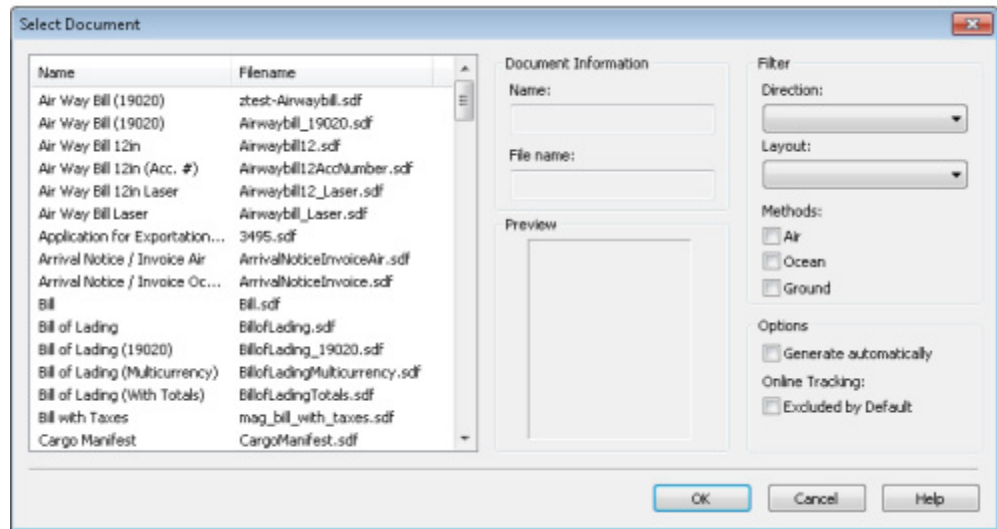
Shipment Documents

Use this option to set your system to automatically include specific shipping documents in shipments when they are created. For example, if you always want an air waybill included in every air shipment created, assign it here so that the document will be automatically included.

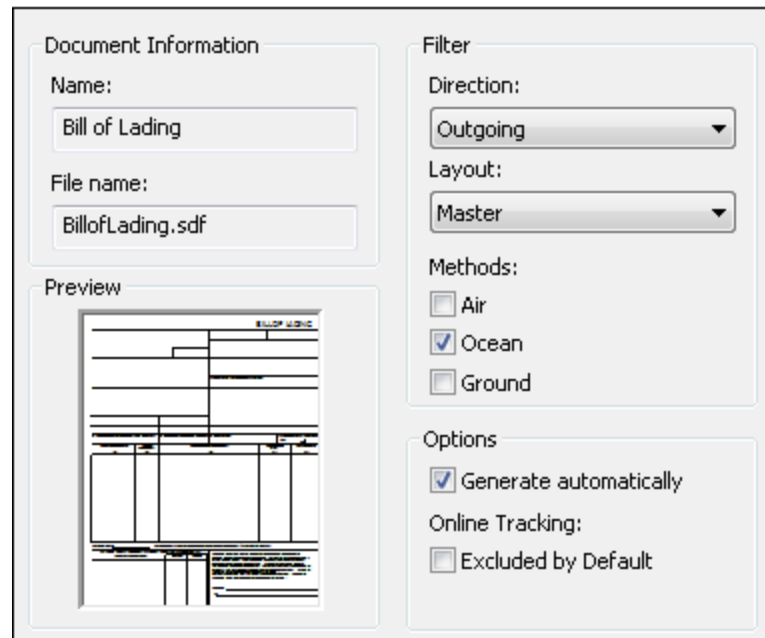


Name	Filename	Direction	Layout	Air
Air Way Bill	Airwaybill.sdf	Outgoing	Master	Yes

To select a document and assign it to a shipment, click the “Add” button. In the dialog box, select the document and set the options:



Each document has options that apply to it such as options for House and Master for the Bill of Lading.

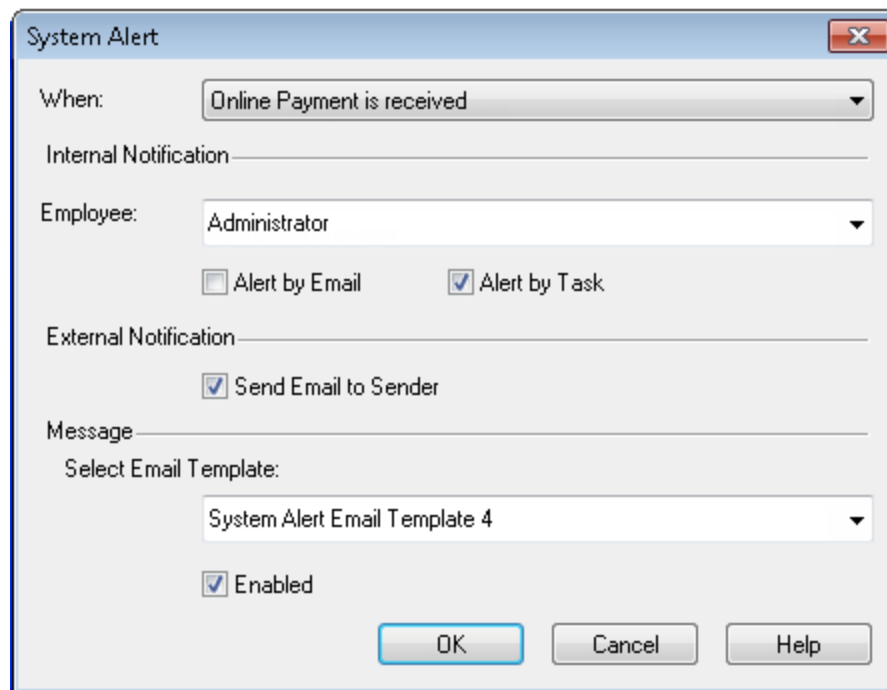


If you don't want this document to appear to the customer when they log into the tracking, click “Exclude from Tracking.”

The shipment documents option is available in the Magaya Cargo System and Magaya Supply Chain Solution.

System Alerts

Use this option to create your own customized alerts. The alerts can be for employees or others outside the company.



The screenshot shows a "System Alert" dialog box with the following fields and options:

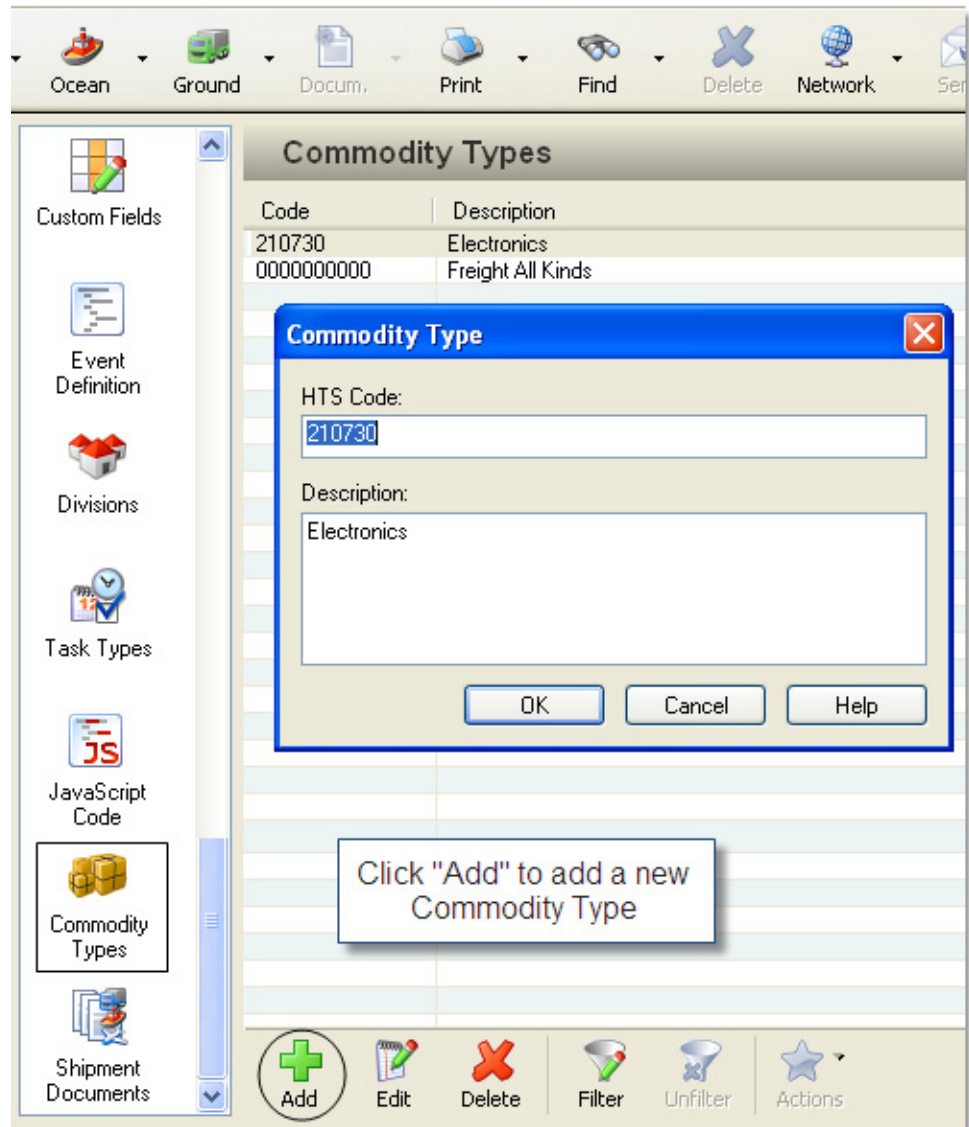
- When:** A dropdown menu set to "Online Payment is received".
- Internal Notification:** A section header.
- Employee:** A dropdown menu set to "Administrator".
- Alert by Email:** An unchecked checkbox.
- Alert by Task:** A checked checkbox.
- External Notification:** A section header.
- Send Email to Sender:** A checked checkbox.
- Message:** A section header.
- Select Email Template:** A dropdown menu set to "System Alert Email Template 4".
- Enabled:** A checked checkbox.
- Buttons:** "OK", "Cancel", and "Help".

The screenshot shows an example of an alert that will send a Task to the employee shown. You can also choose to send the alert via email. Customize the subject line and body of the message according to your needs. There are many options under the "When" field such as notification that a customer signed up on LiveTrack, a sales order was placed online, and more. The message is sent using the template you select.

Check the box to enable to alert.

Commodity Types

Use this option to add commodity types to your Magaya system.



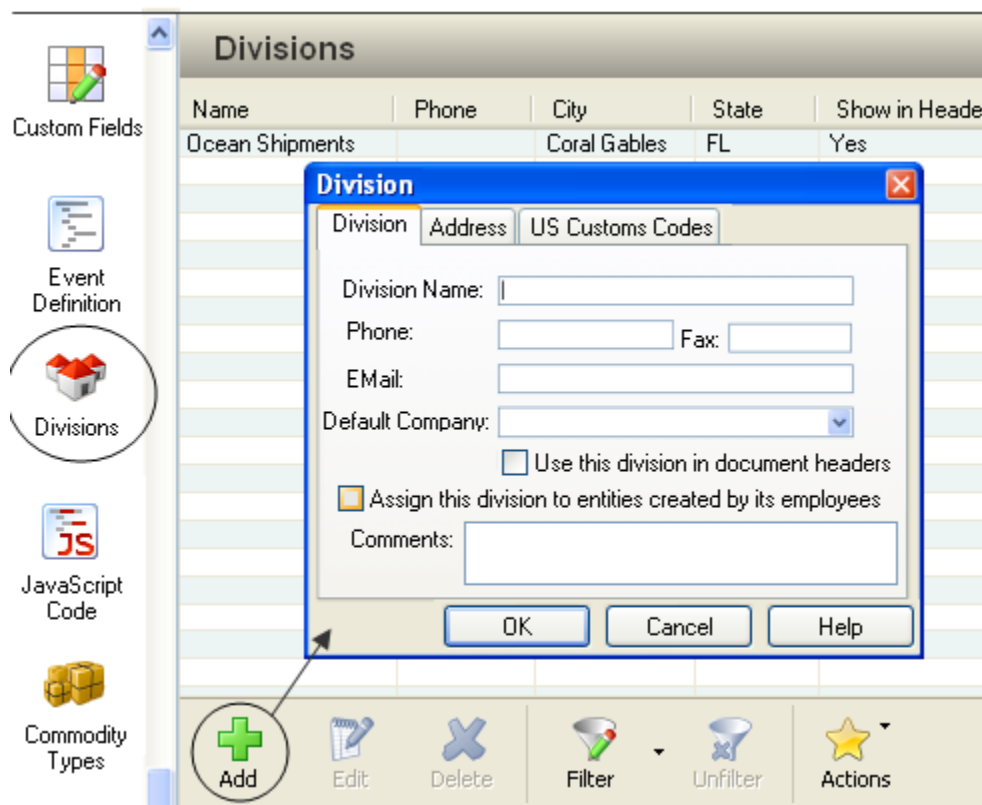
By entering a commodity type here, it will enable you to assign rates by commodity type and to receive cargo in the warehouse by commodity type so the charges for the items will use the rate you assigned.

Divisions

If your company has different divisions, you can set up the divisions in the Configuration screen. As a result, the division will appear as a dropdown menu

in transactions. When you select that division, the address of the division will appear on the documents. Employee permissions can be assigned based on division.

Click the “Add” button to add a new division:

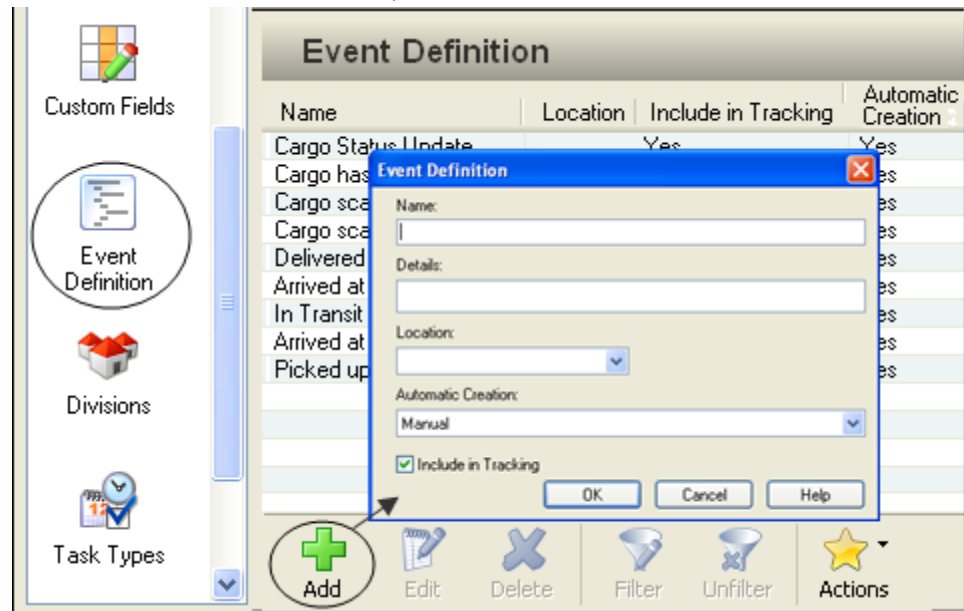


- On the first tab, “Division”, enter the division name.
- Enter the phone number, fax number, and email (optional).
- Select the default company. The default company is the associated company of the division. The dropdown shows companies you have listed in the Forwarding Agents subfolder under the Maintenance folder.
- Check the box if you want the division name to appear in documents such as Air Waybills or Bills of Lading. Check the other box to assign this division to entities created by its employees.
- Add any comments as needed.
- Click on the Address tab and enter the address. This address will appear in the documents created by this division.
- Click on the US Customs Codes tab and enter the Air AMS Originator Code (if needed). This is used when filing AMS from the division.
- Click the OK button when you are done.

Event Definition

Magaya software enables you to define events so you have a list ready to select from and use in the Events tab.

To enter a new event definition, click on the Add button.

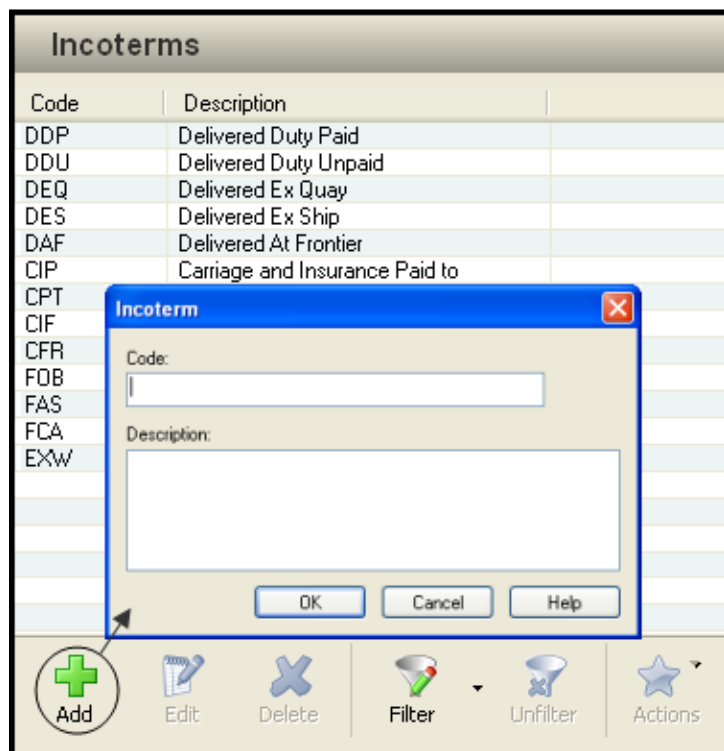


- Enter a name for the event in the Name field of the dialog box.
- Enter details on the event (optional).
- Select a location to connect with that event (optional).
- Select from the dropdown to choose the type of automatic creation for this event. There are many options: You can make an event appear in a WR or Cargo Release when it is created, set as “In Transit,” emailed, or liquidated. If you choose “Automatic,” the event will be added to the transaction and will be visible to the customer. Selecting “Manual” will not automatically create an event. You will have to select it each time for each WR transaction you are creating such as a WR.
- Check the box to include the event in tracking.
- Click OK when finished.

Incoterms

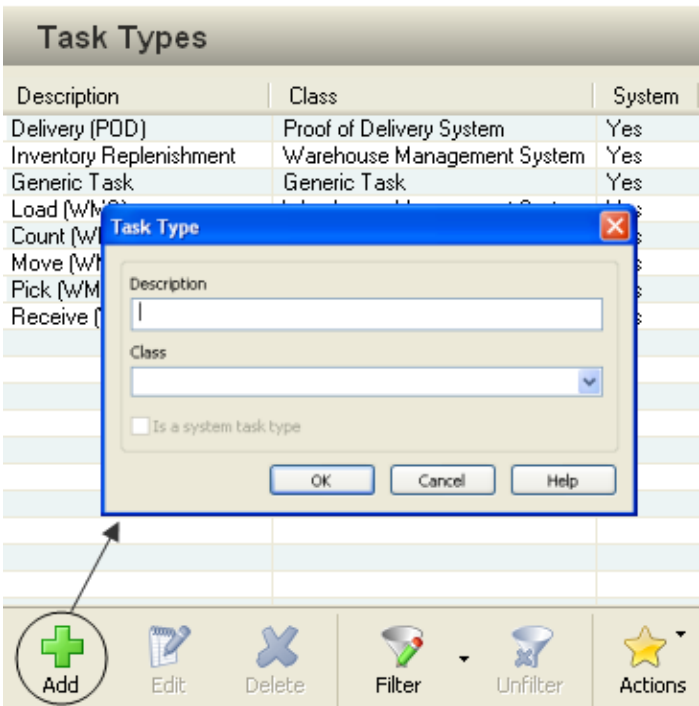
Incoterms are international trading terms that define the point in time in which the responsibilities and liabilities for cargo switch from the seller to the buyer.

The Magaya system includes a default list of incoterms. To add new incoterms, click the Add button and enter the code and description in the dialog box.



Task Types

The Magaya system includes a default list of Task Types.



The column “System” identifies which Task Types are created by the system. If they were created by the system, they are marked as “Yes”. This type of task cannot be deleted. When you create a task, it is marked “No”.

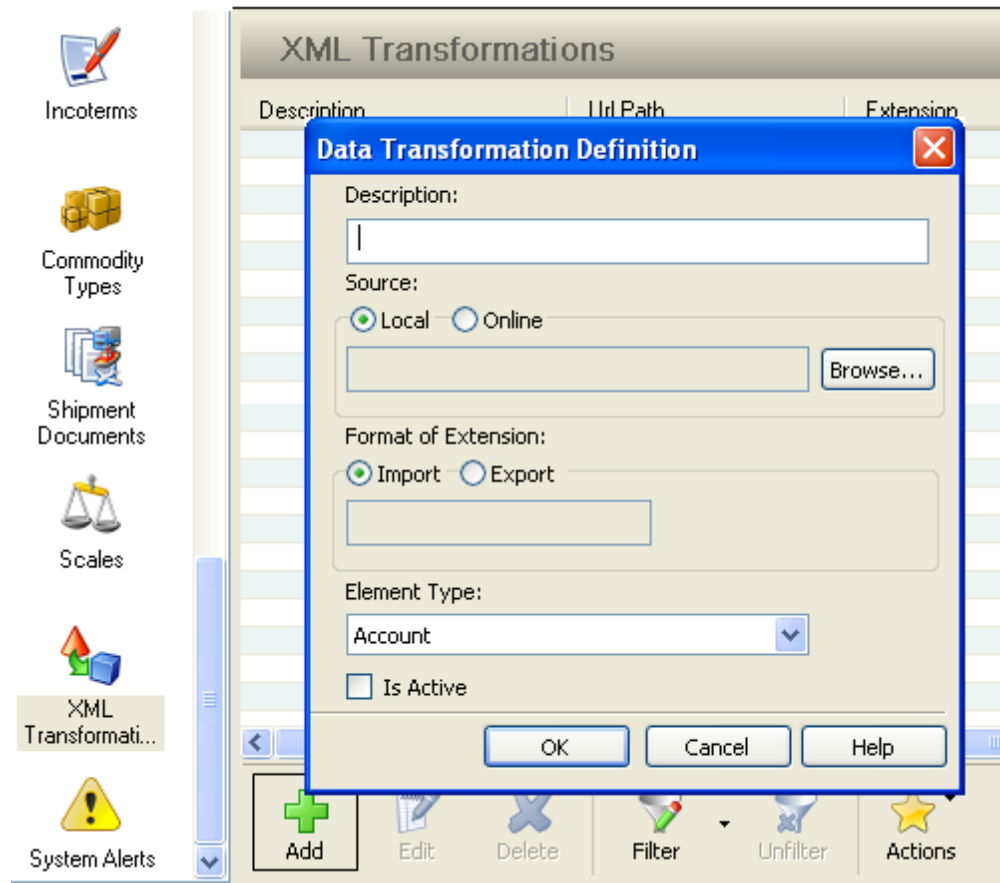
To add new types, click the “Add” button and fill in the information in the dialog box.

XML Transformations

Users can define a transformation for a specific transaction type. For example, if there is a third-party accounting system that receives an invoice in a specific format, you can write a transformation to convert the Invoice to the required format of that system. Formats can be XML, CSV, or other format.

Then when the transformation entry is ready, the user opens the Invoice List, selects the range of invoices to be exported, and clicks on the "Export" button to

select the available transformation (the one you define here). This will create a new file in the required format.



- Type a description
- Choose the source: Local is your computer or network, and Online is a URL.
- Choose the format of extension (Import or Export).
- Select an element type (such as a transaction of an Invoice, Bill, etc.). For example, if you want to transform a shipment for the CASS system, select “Shipment” to make it appear in Actions > Export > XML.
- Click OK to save it.

Email Templates

The system includes some default email templates. You can also add your own to be used throughout your system by all employees. Images and links can be added to email templates as well as other customizations.

Email Template

Type: General

Name: Client Registered Online

Subject: Notification: A Client Registered Online

Body Field...

The following client (company name) has registered online in LiveTrack 2.0:
sys_company_name

☐ Disabled ☐ Request Delivery Receipt Importance: Normal

☒ Email body in HTML format ☐ Request Read Receipt Sensitivity: Normal

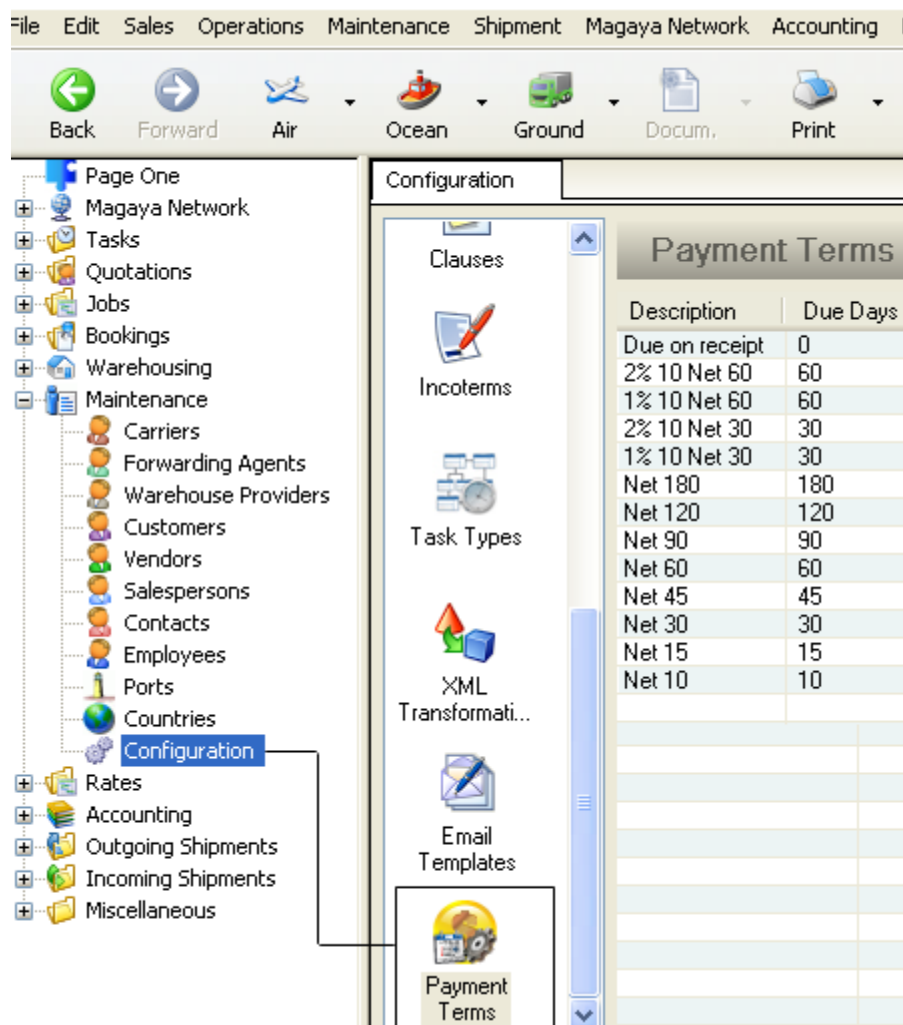
Save Cancel Help

The Email Templates are explained in detail in Chapter 7 of the *Magaya Software Communications Manual*.

Payment Terms

Define your own payment terms for entities such as customers and vendors. With this configuration option, define the due date or a discount for early for early payment. Then apply it to transactions such as Purchase Orders and more.

The system includes a set of Payment Terms. You can add more as needed.



Overview of how it works: When the Payment Term is selected in the PO dialog box (for example), the Due Date field updates automatically. Customer discounts will be applied automatically and show in Invoices.

Set systemwide Payment Terms and default accounts in Configuration > Accounting. This configuration option is available in Magaya software 9.3 and above.

Full details are explained in the Accounts Receivable chapter in the *Magaya Software Accounting Manual*.

4. Custom Fields

Introduction to Custom Fields

Magaya software gives you the option to add fields that gather specific, customized information you need. These custom fields can be used in transactions in Magaya Explorer; in the templates that build documents and forms such as Warehouse Receipts, Cargo Releases, and others; in lists, reports, combo boxes (dropdown menus), and filters. Custom fields can also be used when transmitting or converting transactions, importing or exporting information to and from your Magaya database, and more.

For example if you ship vehicles, you may need to track certain information about the vehicles and generate a report. With custom fields, you can add any field you need and answer questions about the vehicle shipments such as:

- Is the title with the vehicle?
- Are the keys in the vehicle?
- Does the vehicle have gas?
- What is the color of the vehicle?

With the custom fields options, you can create different types of fields:

- Dropdown lists of choices (you set them or choose from your existing list of entities such as customers, carriers, vendors, etc)
- Text fields that can be filled in (you set the character limit)
- “Yes or No” fields
- Number fields and currency fields (whole numbers or include a decimal place)
- Date and/or time fields

When you add a custom field, it becomes available as a new tab in the transaction, such as this shipment:

The screenshot shows a window with several tabs: Delivery, Attachments, Notes, Internal Notes, Custom, and Record. The 'Custom' tab is selected and highlighted with a red circle. Below the tabs, there are several form fields:

- Vehicle Status: Title Received (dropdown menu)
- Passed US Customs Inspection: Yes (dropdown menu)
- Vehicle Empty of Personal Items?: Yes (dropdown menu)
- Gallons of Gas in Vehicle: 0.50 (text input)

You can make the custom field visible for employees internally but not visible to customers.

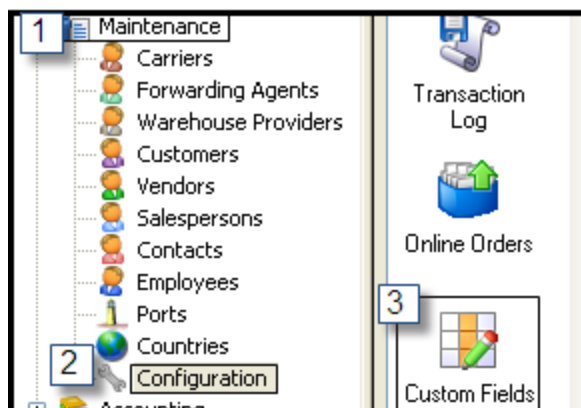
Custom fields are also included as a column in any list in Magaya Explorer (from the Actions button, click on “Choose Columns”):

The screenshot shows the 'Column Settings' dialog box. It has a title bar with a close button. The main area contains a list of columns with checkboxes. A red circle highlights the 'Vehicle Status' and 'Key in Vehicle?' checkboxes, which are both checked. A speech bubble points to these checkboxes with the text 'Custom Fields added to list column headers'. To the right of the list are buttons for 'Up', 'Down', and 'Default'. Below these are settings for 'Field Type' (Text), 'Visible' (checked), 'Word Wrap' (unchecked), 'Width' (94), and 'Align' (Left). At the bottom are buttons for 'Add Columns', 'OK', 'Cancel', and 'Help'.

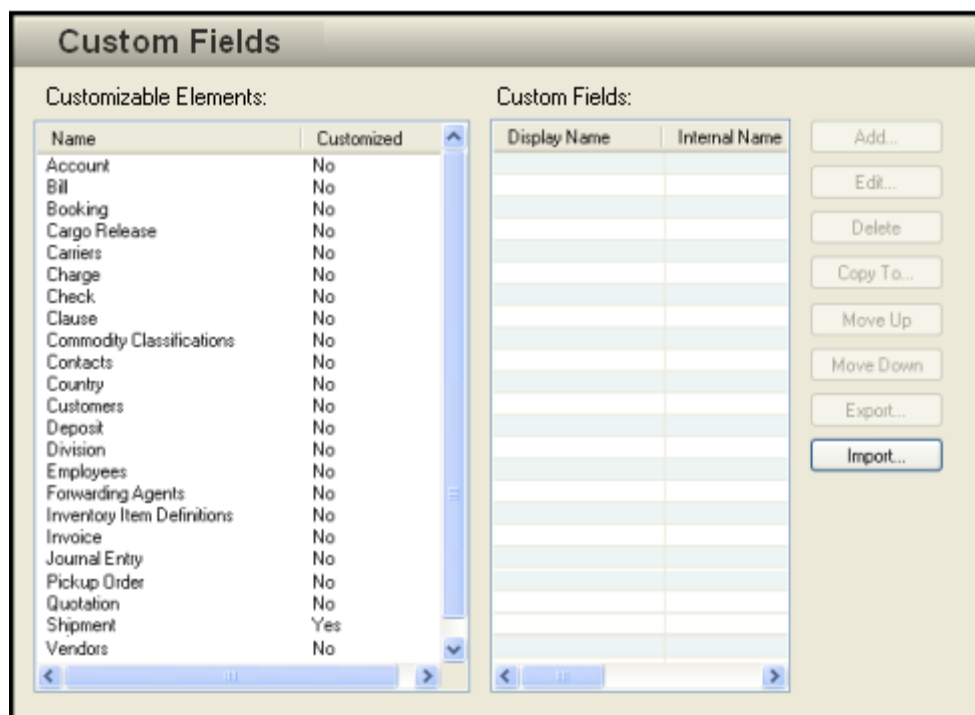
Custom fields will display in documents you customize with the Magaya Document Designer. For example, if you create a custom field for your Warehouse Receipts and place the cargo from the WR into a Shipment, the custom field will appear in the Shipment transaction as well.

Step-by-Step Procedure

- 1) Go to the Maintenance folder (or the Options menu on the top toolbar).
- 2) Click on Configuration.
- 3) Select Custom Fields from the menu.



- 4) In the list of Customizable Elements, select the element you want to customize such as Cargo Release, Invoice, or Warehouse Receipt.

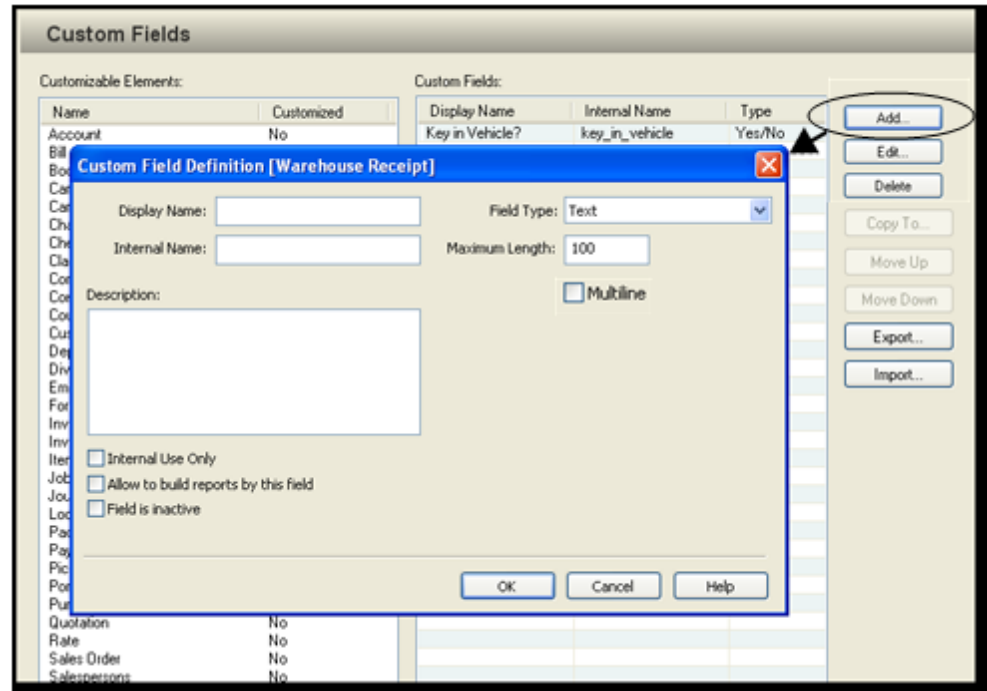


This example will use the Warehouse Receipt element and create a custom field for the following question: Are the keys with the vehicle?

Note: The buttons on the right are grayed out until you select a customizable element. Then the Add button is active. When you add a field, it

displays in the list of Custom Fields. When you click on a field, the other buttons become active.

- 5) Click the Add button to create a custom field for the question. A dialog box opens:



The Field Type is set to “Text” by default. Under the Field Type is “Maximum Length”; this number is set to 100 by default. This number applies to the maximum number of characters allowed in the custom field you are creating; the user must answer with 100 characters or less. The Maximum Length field only appears when you use the Text field type. You can select a Field Type before or after entering a Display Name.

- 6) Enter the following text in the Display Name field (do not include the quotation marks): “Key in Vehicle?” This is the name that will appear in the reports and in transactions. (The Internal Name is assigned by the system. If you make an error such as spell a word incorrectly and you save the custom field, you can edit the Display Name but not the Internal

Name. If you need to change the Internal Name, you must delete the custom field and create a new one.)

Custom Field Definition [Warehouse Receipt]

Display Name:

Internal Name:

Description:

- 7) Enter a description (optional). This will not display on the transaction. This explains when and why this question is used.
- 8) Change the maximum length (optional). This is the maximum number of characters allowed for the answer.
- 9) Select what type of field you want. A dialog box opens, displaying different options depending on which type of field you choose. These are the options:

Custom Field Definition [Warehouse Receipt]

Display Name:

Internal Name:

Field Type: (Dropdown menu open showing: Text, Integer, Decimal, Pick List, Yes/No, Date, Money, Lookup)

Maximum Length:

Description:

☒ Internal Use Only
☐ Allow to build reports by this field
☐ Field is inactive

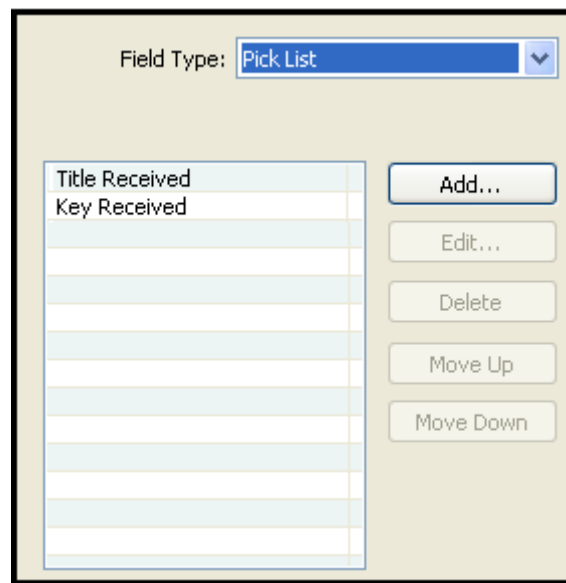
OK Cancel Help

- **Text** will allow text to be entered in the answer field. You can set the maximum number of characters. The default is 100. This option will give the user a free-form field, so they can type in the answer to the

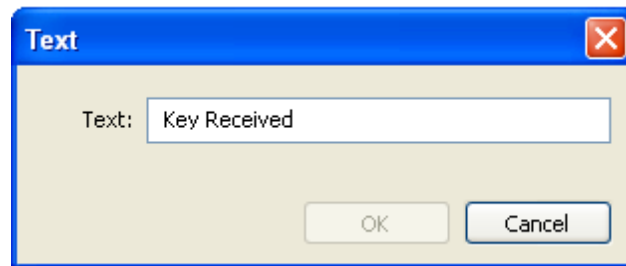
question. This is useful for answering questions such as “What is the color of the vehicle?”

If the text might fill more than one line, click the “Multiline” checkbox.

- **Integer** is for whole numbers (no decimal places). Use this option when you want users to enter a whole number as the answer.
- **Decimal** will allow you to specify the number of decimal places. Use the Precision dropdown to select the decimal places. The default is two places.
- **Pick List** will create a dropdown list with choices you specify (similar to multiple choice):

A screenshot of a software interface for creating a 'Pick List'. At the top, a dropdown menu is set to 'Field Type: Pick List'. Below this is a list box containing two items: 'Title Received' and 'Key Received'. To the right of the list box are five buttons: 'Add...', 'Edit...', 'Delete', 'Move Up', and 'Move Down'.

Click on the Add button to add to the Pick List. A text box opens:

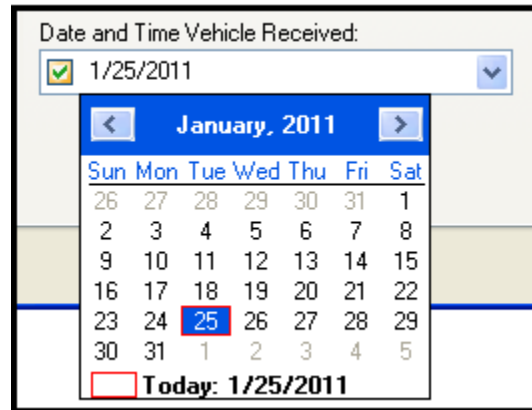
A screenshot of a 'Text' dialog box. The title bar is blue with the word 'Text' and a red close button. The main area has a label 'Text:' followed by a text box containing the text 'Key Received'. At the bottom are 'OK' and 'Cancel' buttons.

Enter text in the box and click OK. The text will be added to your Pick List.

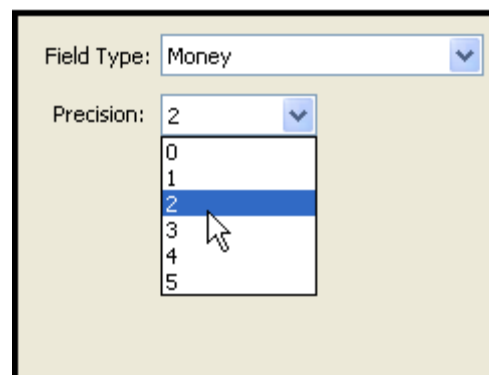
- **Yes/No** is used to answer yes or no questions.

- **Date** can display the date field. To include the time, check the box “Date and Time.”

The user will see a calendar when they click on the Date and Time dropdown in the Custom tab of a transaction such as a Warehouse Receipt:



- **Money** will allow you to specify a currency amount. Use the Precision dropdown to select the decimal spaces. The default is two spaces.



- **Lookup** will allow the user to select from a dropdown list of the entities you set such as Customers, Forwarding Agents, Carriers, etc.

Field Type: **Lookup**

- ☒ Customers
- ☐ Forwarding Agents
- ☐ Carriers
- ☐ Vendors
- ☐ Warehouse Providers
- ☐ Salespersons
- ☐ Employees
- ☐ Contacts

When you select the Lookup field, the user will have a dropdown list to choose from such as on this WR dialog box:

Warehouse Receipt

Supplier Carrier Commodities Charges Events Attachments Notes Internal Custom

Vehicle Color Text Field

Key in Vehicle? <none>

Third Party

Art Supplies

This is what the user sees for the custom field type "Lookup"

Air Jamaica	Customers
Art Basel Gallery	Customers
Art Supplies	Customers
Atlantic Surplus	Customers
Bell Helmets	Customers
Bill's Storage Units	Customers
Biscayne Bike Shop	Customers

- 10) Check the box to “Allow to build reports by this field” to allow this custom field to be available in reports in Magaya software:

Custom Field Definition [Warehouse Receipt]

Display Name: Field Type:

Internal Name: ☒ Date and Time

Description:

☐ Internal Use Only

☒ Allow to build reports by this field

☐ Field is inactive

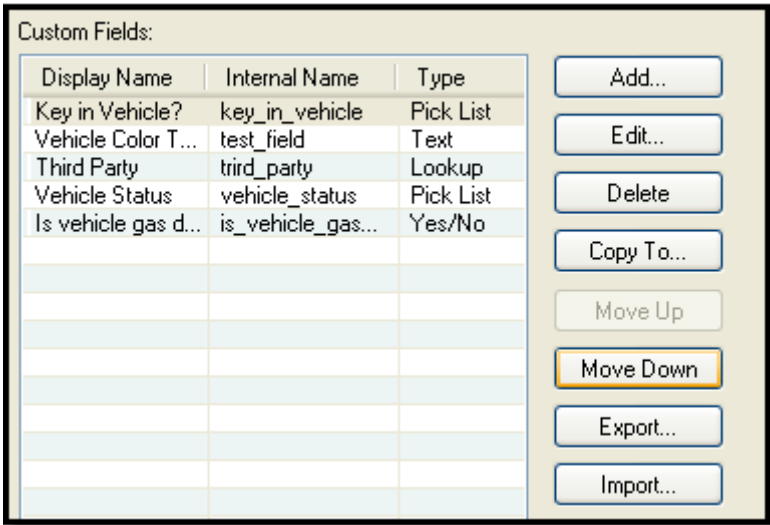
OK Cancel Help

Other options are:

- If you no longer need a field, there are two options: You can delete a custom field completely, or you keep it in your system but make it inactive. To deactivate a custom field, check the box “Field is Inactive”. The inactive field will not appear in filters or lists unless there is data in that field from a previous transaction.
- If you want to create a custom field for internal use only, check the box “Internal Use Only”.

You can add as many custom fields as you need.

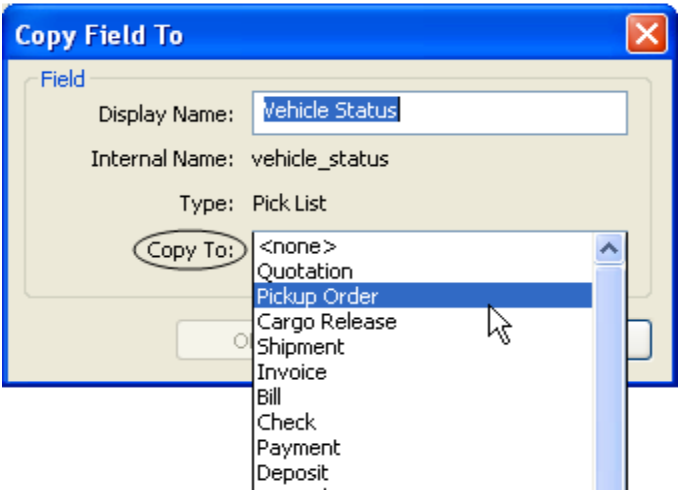
Custom fields can be edited, deleted, copied, rearranged, imported, or exported from Magaya Explorer to another program by using the buttons shown:



To move an element up or down, select it and click the button you need. For example, in this example the element “Key in vehicle” is the first in the list. If you want to move it down the list, select the element and click the Move Down button. The element will move down one place.

Select the field to edit, delete, etc. and click the button needed. When you delete a field, it is deleted from the list in the Custom Fields screen, from the transaction tab, and from the Reports menu. If you delete a field that was used in transactions, you will still see that field in the Advanced Filter. This enables you to filter by that field for any past transactions that used that field.

The “Copy To” button will open a dialog box so you can copy that field to another transaction so you do not have to recreate the elements.



Result: After you add a custom field, it becomes available as a new tab in the transaction. The dropdown fields will display <none> until a selection is made:

The screenshot shows a window titled "Warehouse Receipt" with a blue header bar. Below the header is a tabbed interface with tabs for "Supplier", "Carrier", "Commodities", "Charges", "Events", "Notes", "Internal Notes", and "Custom". The "Custom" tab is selected and highlighted with a yellow border. The main area of the window contains several form fields: "Key in Vehicle?" with a dropdown menu showing "<none>", "Vehicle Color Text Field" with a text input box, "Third Party" with a dropdown menu showing "<none>", "Vehicle Status" with a dropdown menu showing "<none>", and "Is vehicle gas drained?" with a dropdown menu showing "<none>". At the bottom of the window are three buttons: "OK", "Cancel", and "Help".

The information added into the Custom Fields will be automatically carried over to any other transactions you create from this Warehouse Receipt such as to a shipment.

If you add Custom Fields to an Inventory Item Definition, those fields will automatically appear on the Commodity description when you receive those items in the warehouse.

To include custom fields in your documents such as Warehouse Receipts, Cargo Releases, etc., you will need to add the same fields to the templates for those documents by using the Magaya Document Designer. Then you will select that template to use for those transactions. For details, see the topic "Magaya Document Designer".

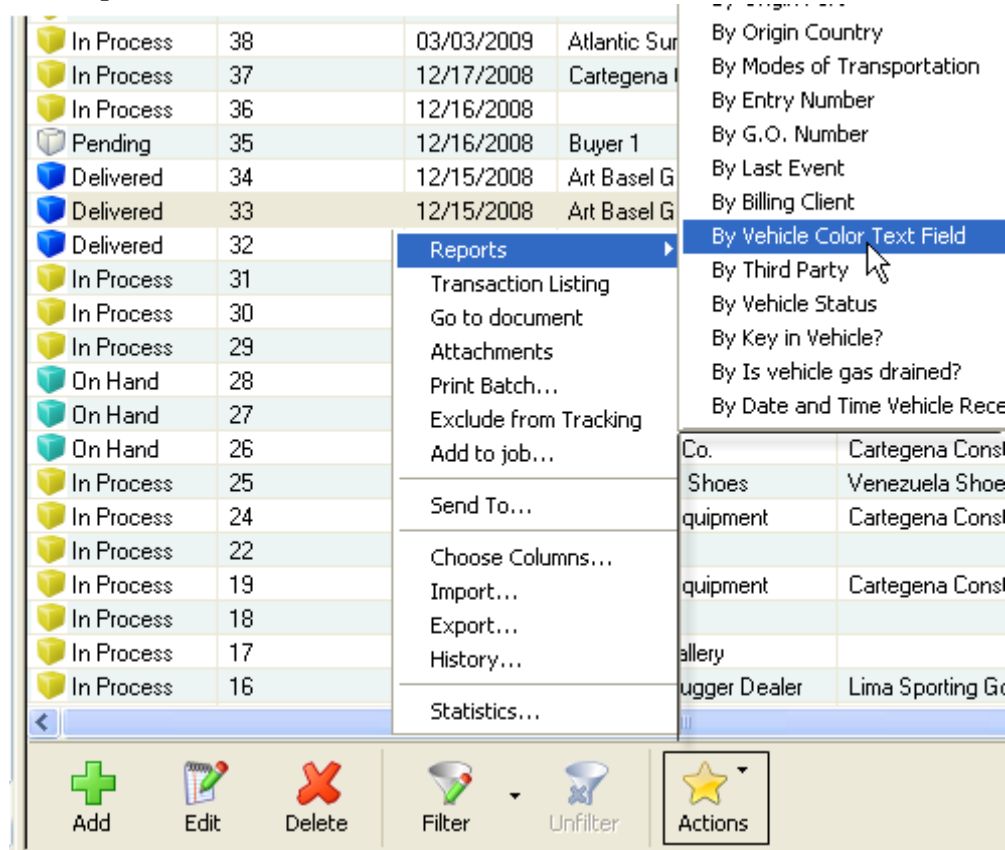
Custom Fields in Reports

After you create custom fields, you can see the information gathered by the fields and placed in a report. In order to create a report that uses custom fields, that field must have a checkmark in the box to use in reports.

To generate a report of this information, click on the Actions button in the list you are working on. For example, if you made a custom field for "Vehicle Status" and you need to see a report of the vehicle status for all vehicles received

in the warehouse, go to the Warehouse Receipts List and click on the Actions button.

- Click on “Reports” and select the report you want. In this example, we are looking for vehicle colors. (When the custom field “Vehicle Color” was created, the checkbox was activated to allow this field to be used in reports.)



- The report opens, showing the colors of all the vehicles in the date range you want to see in this report.

Warehouse Receipts by Vehicle Color Text Field

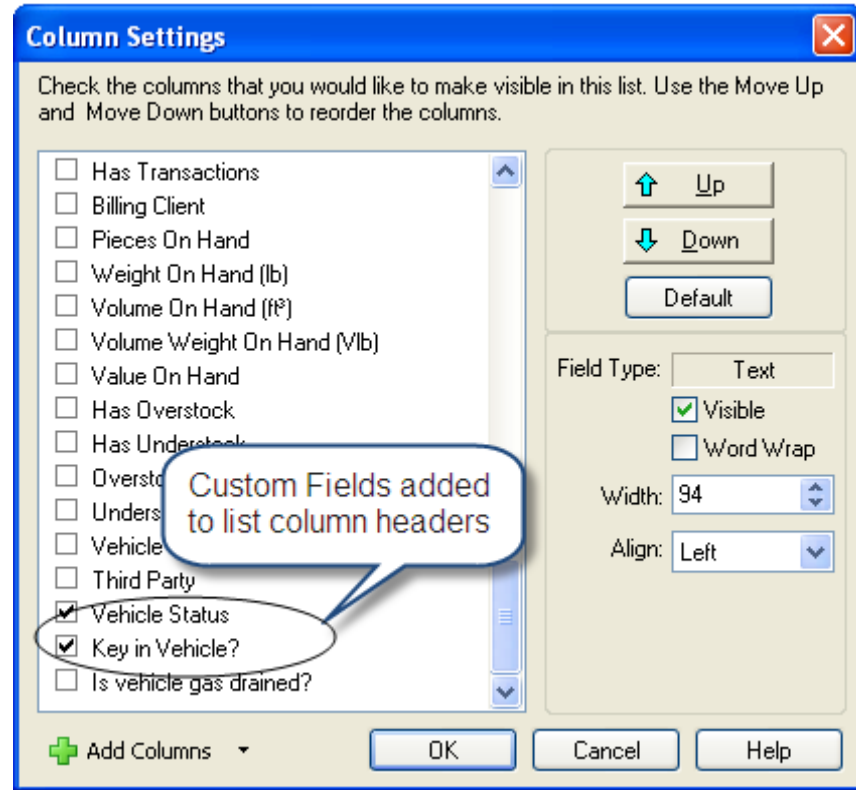
Dates: This year to date From: 1/1/2009 To: 9/17/2009

HWC Cargo Company
Warehouse Receipts by Vehicle Color Text Field
January 1 through September 17, 2009 (USD)

Status	Number	Date	Shipper	Consignee	Supplier	Carrier	Pieces	Weight (lb)
Gray								
Pending	45	09/02/...	Bill's Storage...	Venezuela Pool...	Bill's Sto...	Anderson ...	1	0.0
							1	0.0
tan								
In Proc...	39	03/09/...	HK Porter	Cartegena Co...	HK Porter		1	4558.0
							1	4558.0
white								
Pending	44	07/29/...	Art Supplies	Biscayne Bike...	Art Sup...	Anderson ...	27	104.0

- The column headings in the report are the ones checkmarked in the “Choose Columns” dialog box.

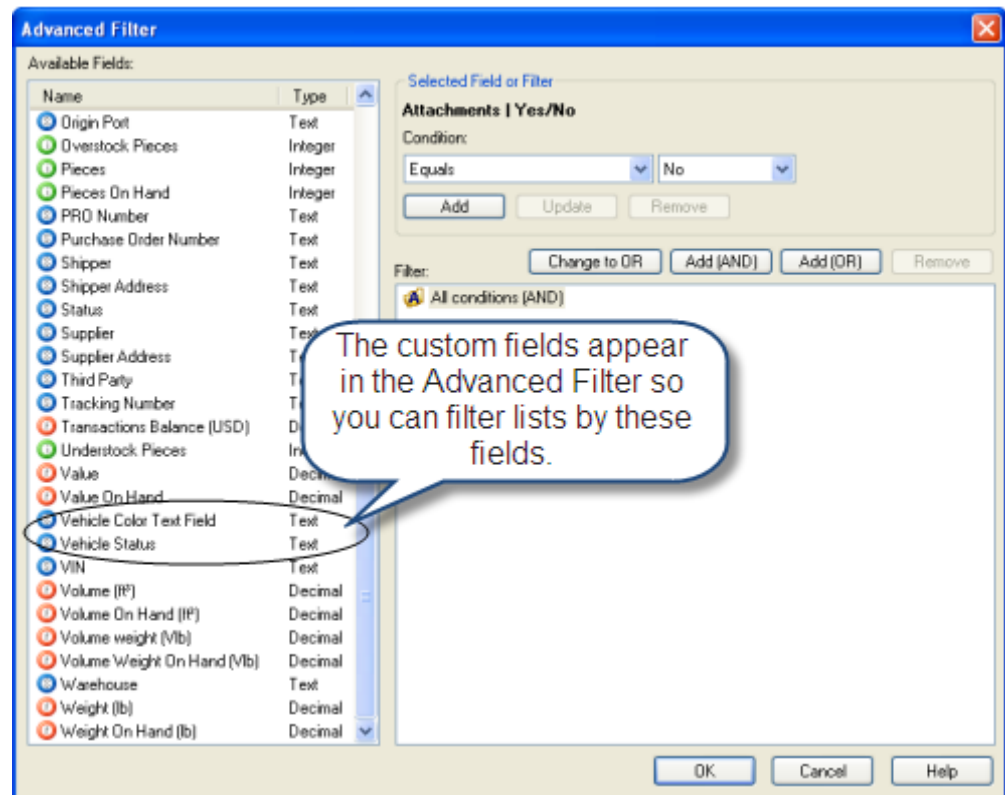
The custom fields you can see are the ones created and activated to be listed in reports.



Custom Fields in the Advanced Filter

When you create custom fields, they will be available in the Advanced Filter. You can filter a list to see the information that was gathered in the custom fields. For example, this Advanced Filter screen shows the fields available in the Ware-

house Receipt list, including the custom fields added that gather information about vehicle color and status:



Steps for using the Advanced Filter are available in the *Magaya Cargo System Operations Manual* in Chapter 5.

Add Custom Field to a Document Template

Document templates can be customized to display data from Custom Fields. These templates can be selected in transactions such as the Warehouse Receipt document view Actions button. You can copy an existing document template in that screen; the Magaya Document Designer application opens. For details on using the designer, see Chapter 5.

5. Magaya Document Designer

Introduction to the Magaya Document Designer

What is the Magaya Document Designer?

Magaya Document Designer is a tool you can use to customize existing Magaya documents or create new ones by creating custom templates. Data available in Magaya software can be placed in the following types of documents using the Magaya Document Designer:

- Quotations and Bookings
- Pickup Orders, Cargo Releases, Labels, and Packing Slips
- Purchase Orders and Sales Orders
- Warehouse Receipts and Warehouse Receipt Labels, and Cargo Moves
- Shipment Documents, Shipment Master and House Labels
- Invoices and Bills
- Payment Receipts, Checks, Deposit Tickets, Journal Entries and Client Statements of open invoices with applied payments and balances

You can also make these documents available for your customers to see via Magaya LiveTrack.

Magaya Document Designer is included with all Magaya software and is available from the Document button in Magaya Explorer, or it can be opened from your computer's Start menu > All Programs > Magaya software.

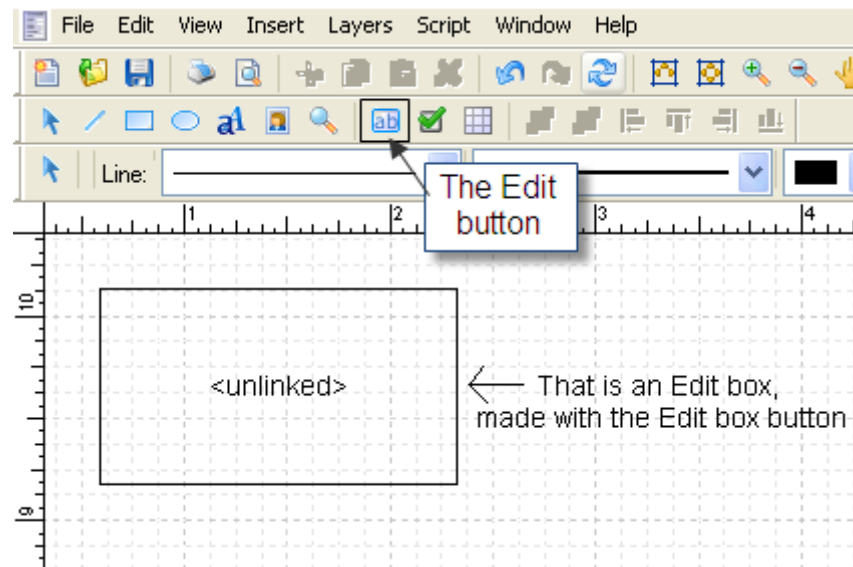
To access Magaya Document Designer, you need administrative rights. Only users with administrative rights can create and publish templates.

How Does the Magaya Document Designer Work?

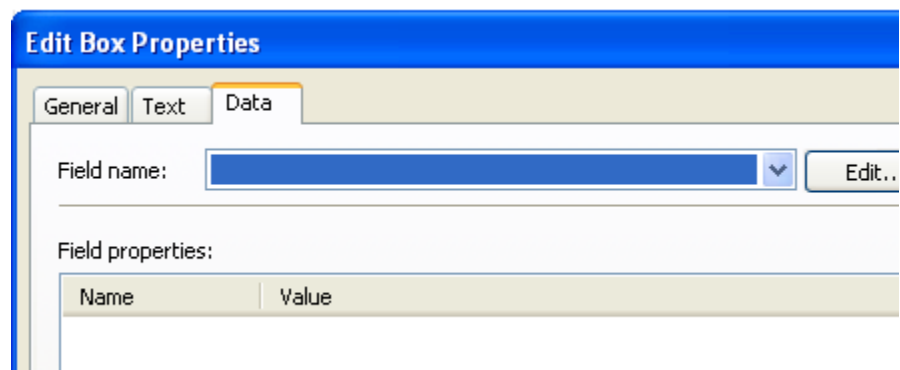
Magaya Document Designer uses visible elements which include graphic elements and controls:

- Graphic elements are images, text boxes, lines, rectangles, and other shapes. You can fill the shapes with color, change the border or the font, etc.
- The controls are the way that the Magaya Document Designer displays the data. There are three types of Controls: edit boxes, checkboxes, and grid (tables). The Controls are linked to fields. The fields store the data, and Controls display the data.

The following image shows a Control made using the Edit button. When a Control is created using the Edit button (or using the checkbox or table buttons), the Control is “unlinked”, meaning it is not associated with any data source yet.



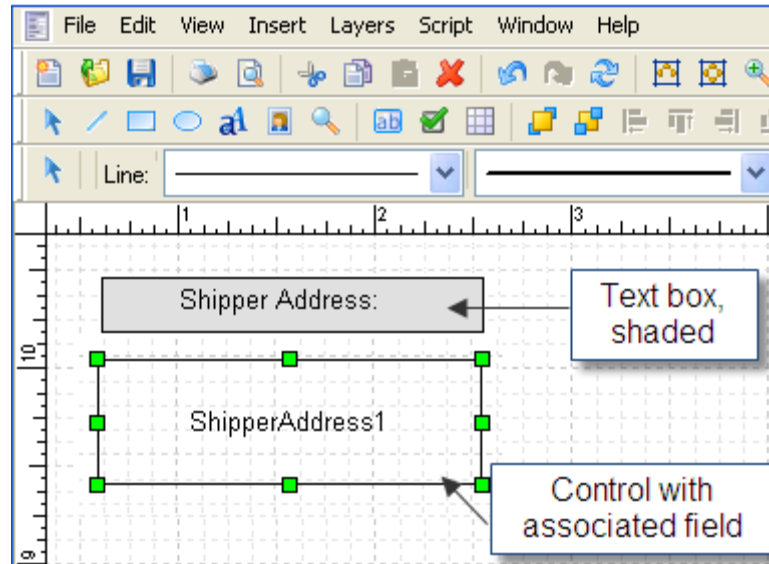
To link this box with a data source, right-click on it and select “Properties” from the pop-up menu. On the Data tab, select a field name from the dropdown:



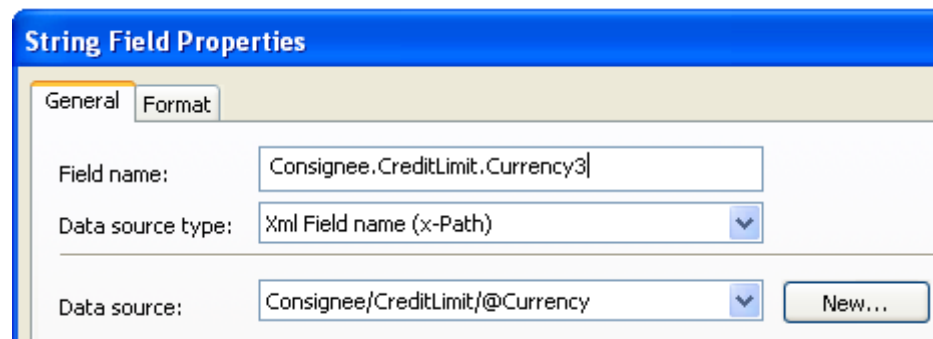
The field name needs an x-path that will lead to the data source for this field and populate it.

You can also create a Control and then drag an element from the Schema list and place it inside the Control box. The elements in the Schema list already have data sources associated with them. When you drag and drop an element from the Schema list, the field name is created automatically and linked to the Control.

To identify the Controls, add a label such as a text box. For example, if you are creating a document that a customs agent needs to fill out, you must add fields and labels so the agent knows where to write the date, etc. This image shows a shaded text box above the control:



The Control that is associated with a field will gather data and display it. Fields have a field name, a data source type, and the data source itself. The following shows the field properties for an element dragged from the Schema list:



Fields can be filled with data in these ways:

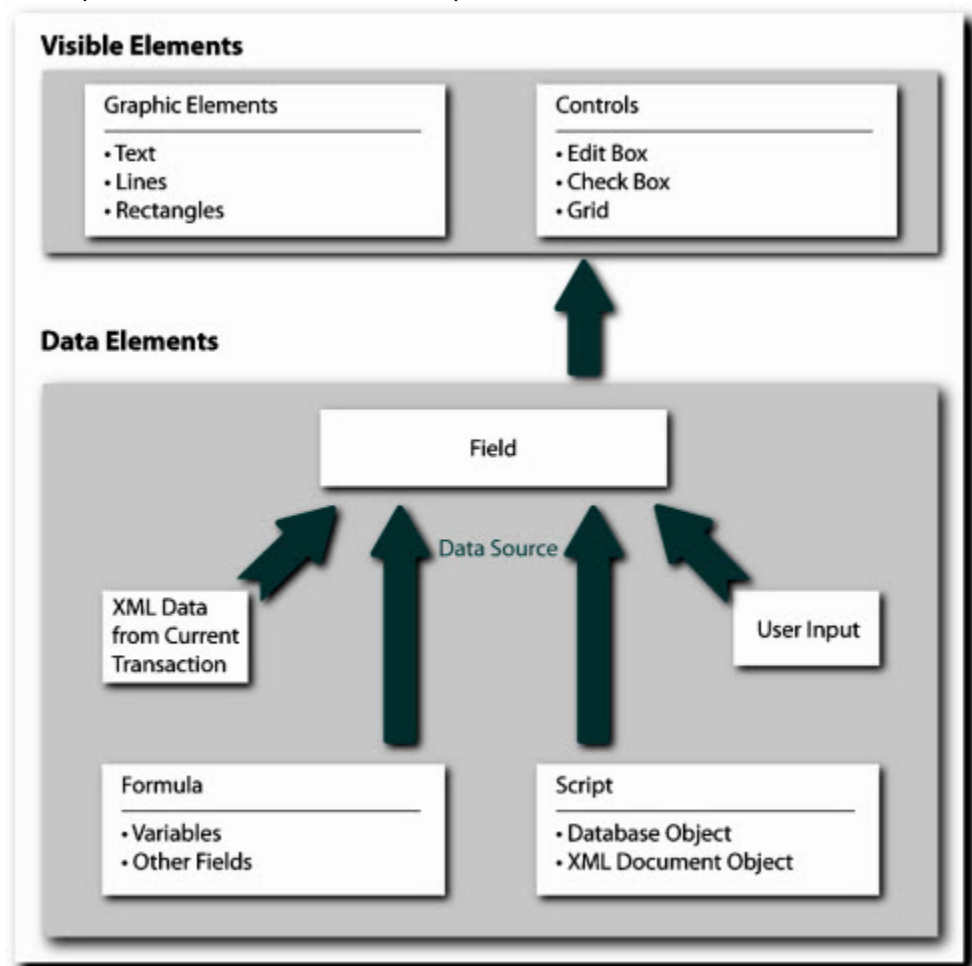
- From an XML element (in a schema list): This takes XML data from the current transaction such as a WR and fills it into the field.
- From a Formula: A Formula gets data from other fields through variables.
- From a Script: The script gets data from the DatabaseObject or the XML DocumentObject. (For example, you can access an item inside a shipment

and calculate charges for that item based on the WR for the item.) For more details about using JavaScript, see the topic on "JavaScript".

- **From User Input:** A user enters text in an empty field that you create. This option is useful when the element you need is not in the schema list or when you need the flexibility to allow users to enter information.

Fields can be string fields for entering text, Boolean fields to create checkboxes, or table fields. When Magaya Explorer fills in a document, it takes all the information entered in the dialog boxes and prepares it in an XML format. The fields each have their own x-paths (a unique XML path) that leads to this field and no other. For more, see the section on the . Unused fields can be deleted by right-clicking on them.

The following diagram identifies the visible elements and the data elements, and it illustrates the relationship between the controls and the fields: Controls are filled by fields, and fields are filled by the four data sources.



The following sections will explain how to:

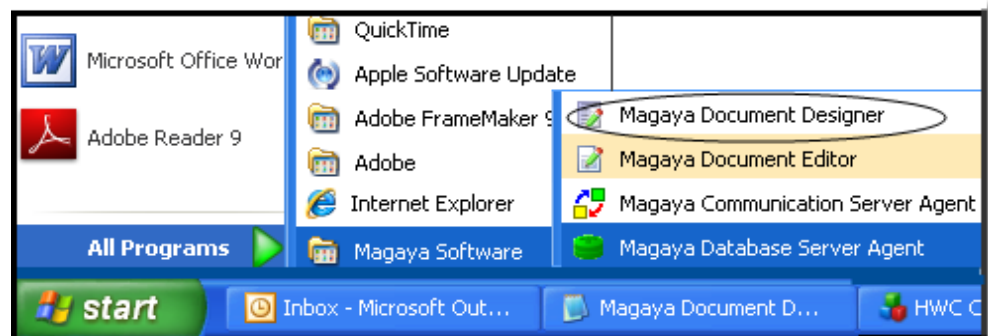
- Open the Magaya Document Designer

- Use the Magaya Document Designer Interface
- Customize an Existing Template
- Add an Image or Logo to a Template
- Create a New Custom Template
- Publish a Template

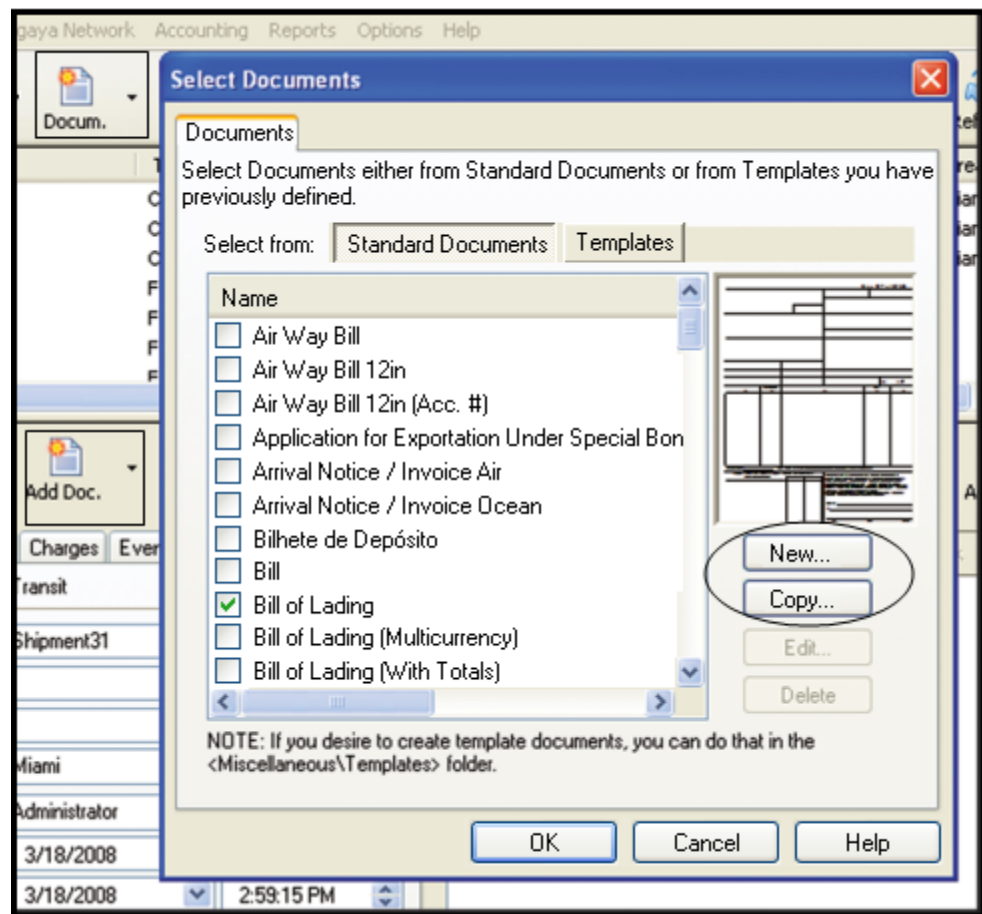
How to Open Magaya Document Designer

There are two ways to open the Magaya Document Designer:

- 1) Magaya Document Designer can be opened from the server computer's Start menu:



2) From Magaya Explorer:

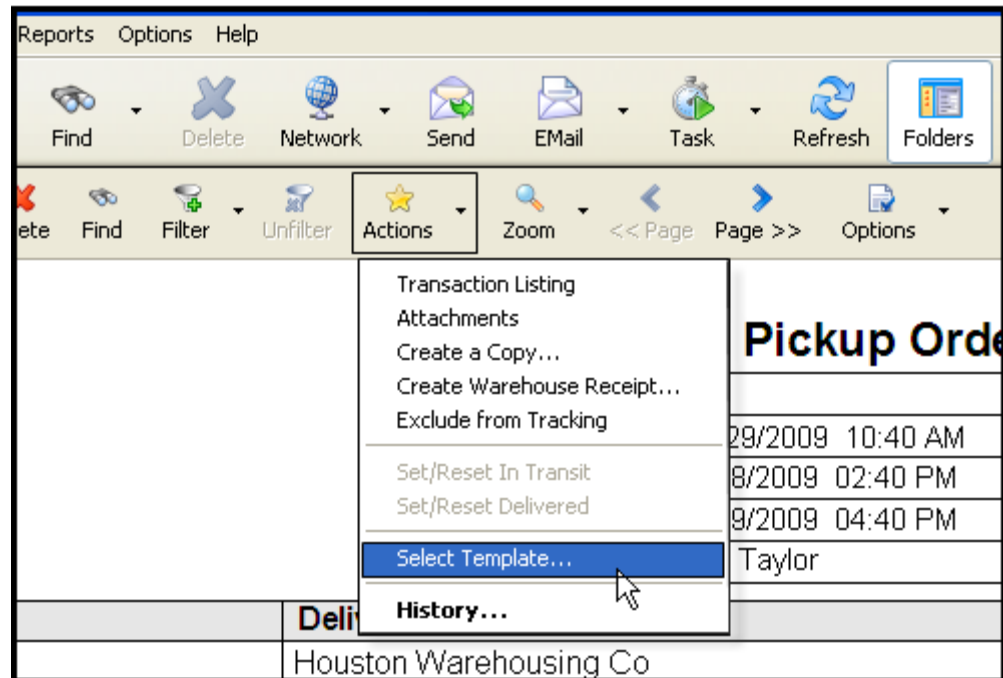


Click on the Document button (“Docum.”) on the toolbar on the top of the Magaya Explorer, or click on the Add Document button (“Add Doc.”) on the Shipment Toolbar. A dialog box called “Select Documents” opens.

To open a new document, click on “New”. If you want to copy an existing document and modify it, click on the document name in the list and click

on the “Copy” button. If the buttons are grayed out, verify your rights access to the Forms folder on your computer.

If you are working in the document view of a Pickup Order, WR, or Cargo Release, click on the Actions button and click on “Select Template”:



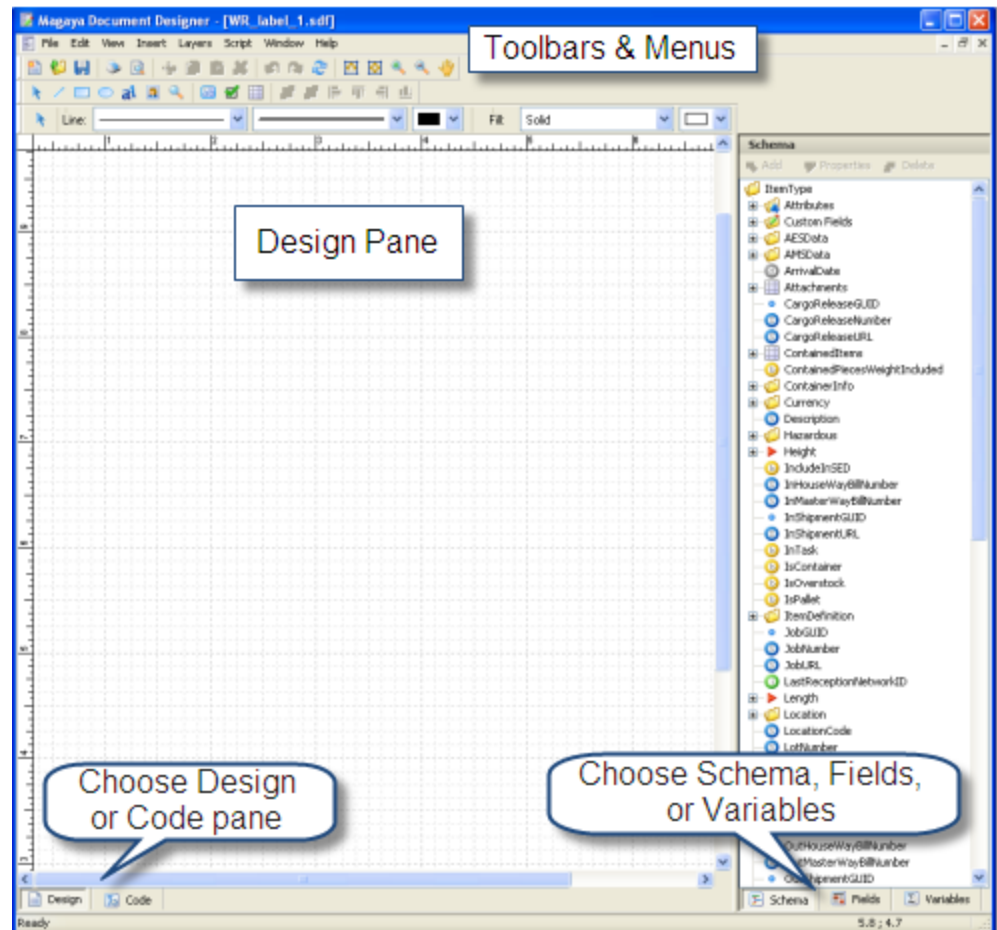
A dialog box opens with buttons for you to select the template. Click New, Edit, or Copy.

The Magaya Document Designer opens:

- If you clicked New, you will see a dialog box with different types of templates you can choose from to make a new template.
- If you clicked Copy, you will see the template of the form you selected such as a WR or Pickup Order.
- If you selected Edit, the document you selected will open, ready for you to edit.

The Magaya Document Designer Interface

The main screen of the Magaya Document Designer contains the Design/Code pane, toolbars, menus, and schema list.

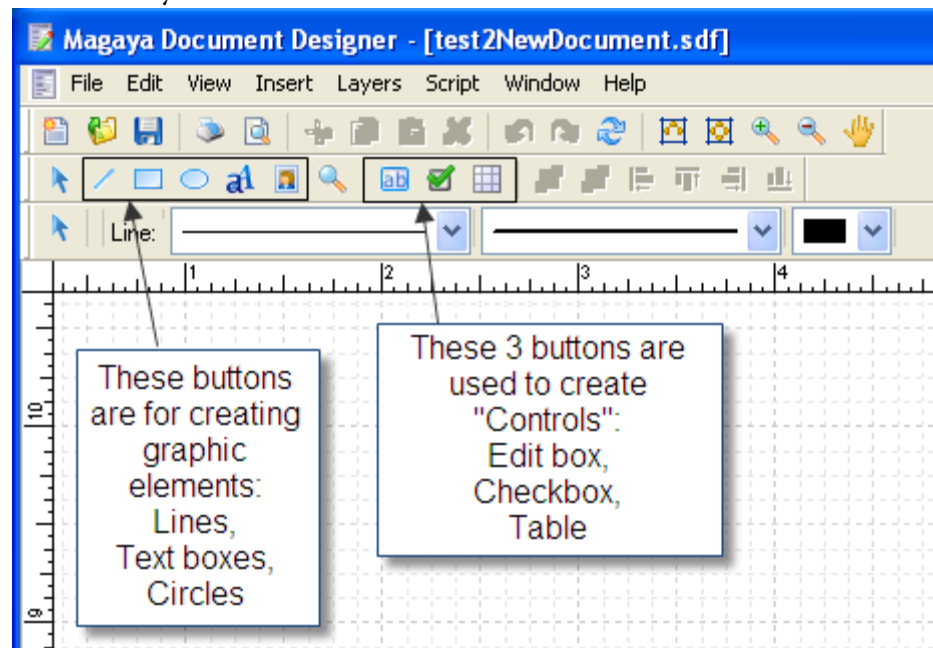


The Design pane will display the template you are working on. The Code pane will display any JavaScript code you have created for this document.

Toolbars and Menus

The toolbars on the top of the Design pane have standard buttons such as Save, Edit, and Zoom.

To add graphic elements, use the buttons to draw a line, rectangle, circle, text box, or add an image. To add a Control, use the control buttons to create an Edit box, a checkbox, or a table. The choice of Control will depend on how the box will be used in your document.



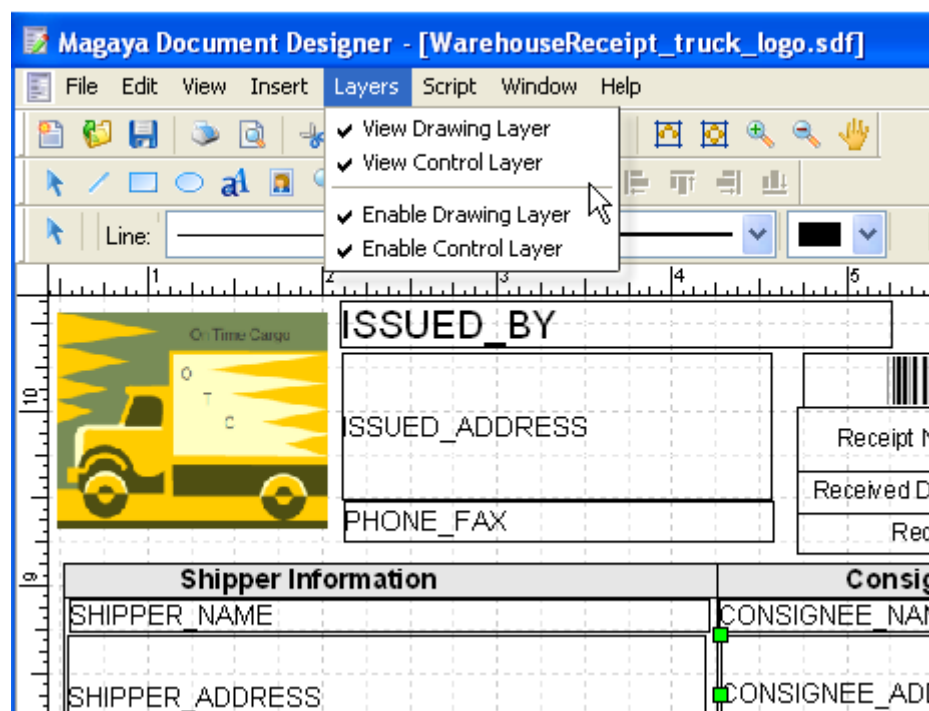
In addition to the toolbars, the menu commands across the top offer many functions:

- The **Insert** menu contains many of the functions that are also available as buttons on the toolbar such as the line or rectangle buttons. You can insert an image such as your company logo. You can also add a background image which will look similar to a watermark.
- The **Script** menu option is active when you are working in the Code pane. It is grayed out when you are working on the Design pane. The Script menu contains options to check syntax and more.
- The **Window** menu has options such as the ability to switch between viewing different documents if you are working on more than one.
- On the **Layers** menu are options to view the layers. There are two layers: the Drawing Layer and the Control Layer:

The Control Layer is the layer of the template you see in the Design pane that contains only the Controls and fields from the schema list or any Controls you added using the Control buttons.

The Drawing Layer shows the text boxes, rectangles, lines, etc. added to a template. Both layers are displayed and enabled by default. When you

view the Layers menu, you will see a checkmark next to the layer(s) that are displayed.



On the right side of the Magaya Document Designer interface is a menu with three tabs: Schema (XML), Fields, and Variables. These are the elements you will use to create new fields on your custom template.

The schema list is specific to the type of template you are creating, and it shows all the elements available for that type of transaction. For example, if you want to create a shipment document, then the list of schema will include all the elements related to shipments such as the carrier, charges, destination, etc. These elements can be dragged and dropped from this list to the Design pane. Let's look at each in more detail in the following sections.

Schema

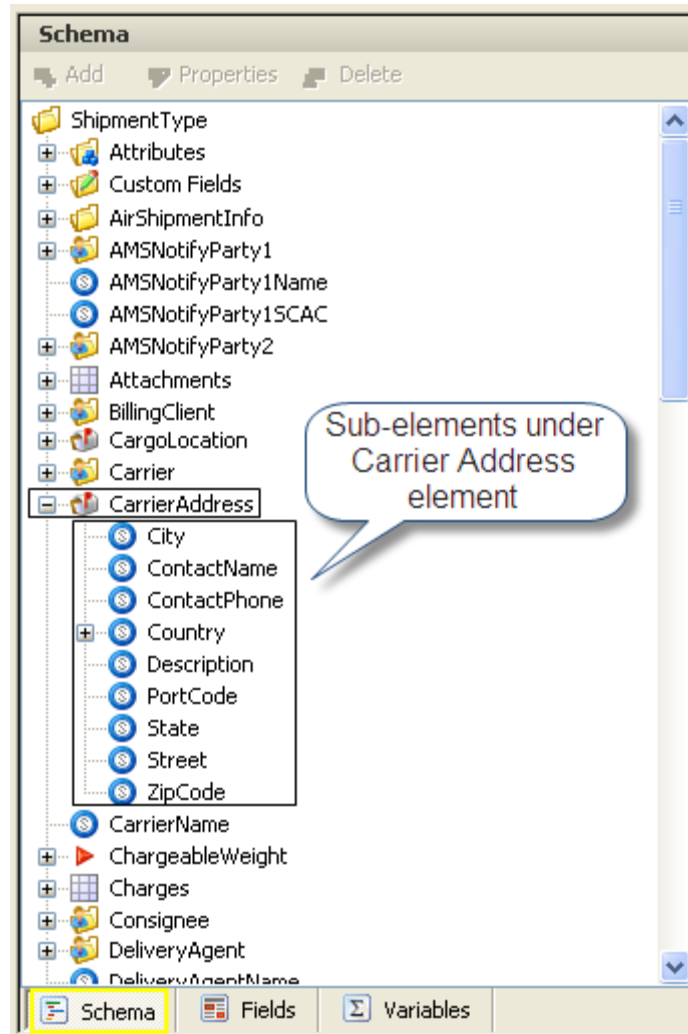
These are XML elements used to feed data into fields. When you drag and drop one of these elements from the list to the Design pane, it creates a control and a field that will fill with data. (The fields created can be viewed by clicking on the "Fields" tab on the bottom of the Schema list.)

The schema list shows all the elements available for the type of transaction you are working on such as a Warehouse Receipt or Shipment. For example, if you drag the element "Number" from the list and drop it on the Design pane, it creates a field for the shipment number. When a user enters the shipment

number (or name) in the shipment dialog box in Magaya Explorer, it will appear on the form in the place you specify with Magaya Document Designer.

For specific information on each element in the schema, hover the mouse over each element to see a pop-up with details.

To expand one of the elements, click on the plus sign. This will show all the sub-elements inside that element.

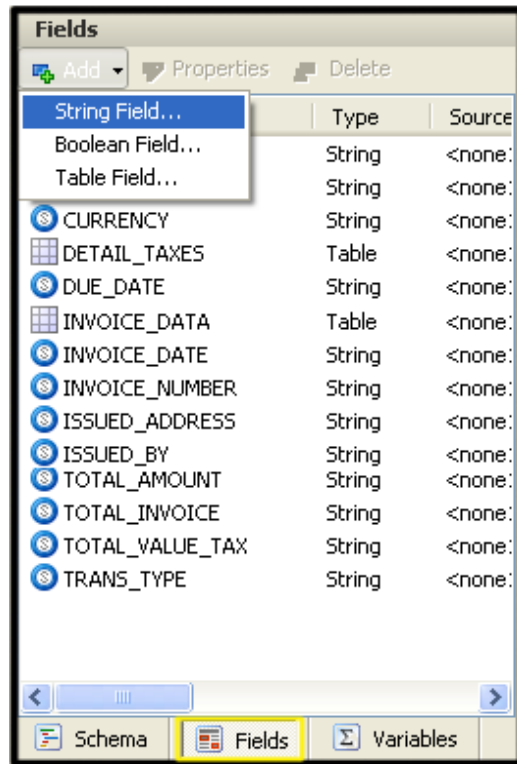


Fields

Fields store data. The data can be filled in automatically by linking the field to a schema element, or the user can fill in the data by typing information into the control associated with that field.

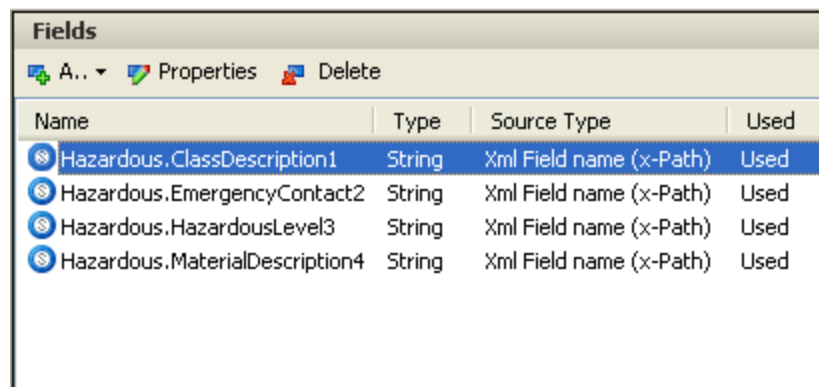
The fields you see in the list are the fields that come with your documents by default. They can also be created by the system automatically when you drag a schema element from the Schema list to the Design pane.

You can also add different types of fields if you do not see the one you need. Click the Add button and select the field type: String, Boolean, or Table:



Other buttons enable you to view properties or delete a field.

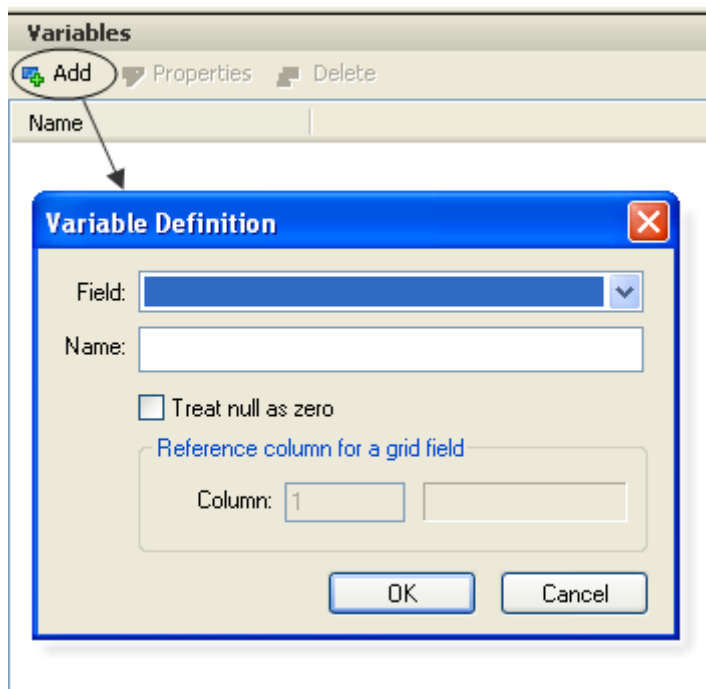
The columns in the list show the field name, type, and source type:



Variables

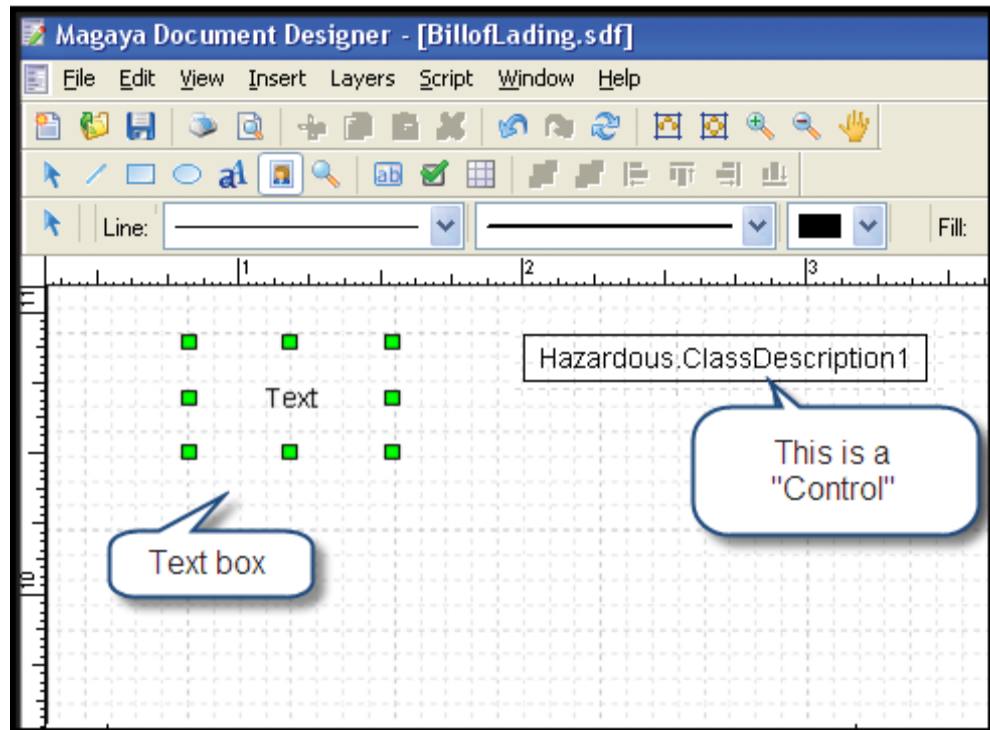
Variables are often used to calculate totals in formulas by gathering data from other fields such as the total of prepaid charges in an Air Waybill.

When you click the “Add” button in the Variables list, a dialog box opens. In the dialog box, the dropdown arrow for “Field” will show the fields used in the custom template you are designing.



The name (alias) is filled in when you select the field. To treat null as zero, check the box: This will make sure no value is calculated if a field is blank. The Column field is used if you have a table (or a grid) and want to specify the column for the variable.

For each Control created on the Design pane, you can create a caption or a label for it by using the text button to add a text box to the template.



You can copy a text box and paste it by right-clicking on the text box and selecting “Copy” from the pop-up menu. (Alternates: Use “Edit” on the menu or press the Ctrl + C keys on the keyboard.)

When you select the box, it will have handles (boxes on the edges) that you can use for resizing.

In addition to the Design pane in Magaya Document Designer, there is a Code pane that can be used to enter code to create custom fields on a template. The Code pane is similar to a text editor.

Customize an Existing Template

Existing templates can be modified to your needs. You can add or remove fields, insert an image or your company logo, and make other changes.

Plan Your Custom Template:

To get started with your custom template, evaluate what you need to do. For example, you may want to add text such as “Hazardous Materials” in bold red letters across the top of a Warehouse Receipt, or maybe you need to add information into the WR about vehicles that you ship. You can also add information collected in custom fields that provide more information on the type of hazardous materials or vehicles in a shipment. These fields can be added to the WR. The custom WR template can be added to the list of templates users can choose from.

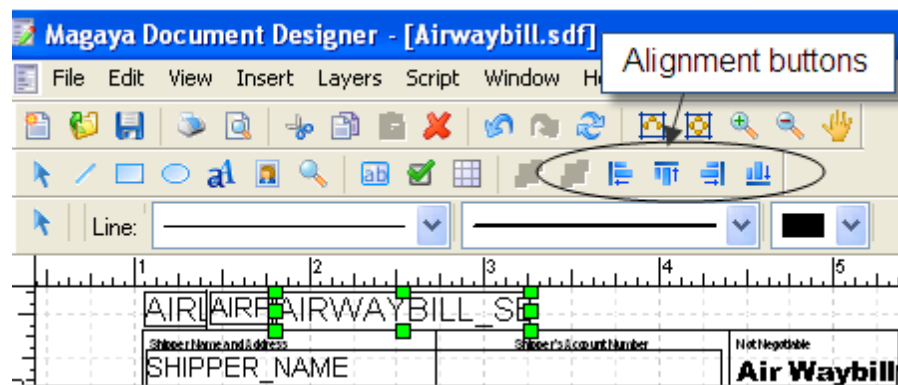
Getting Started:

To customize a template, open it - either from the Start menu or from within Magaya Explorer (in a transaction such as a WR document > Actions > Copy). The Magaya Document Designer will open the template and display it in the Design pane. Rename the template and save it in the Forms folder inside your Magaya software installation folder.

Common Functions:

The following will explain some of the more commonly used functions in the Magaya Document Designer program.

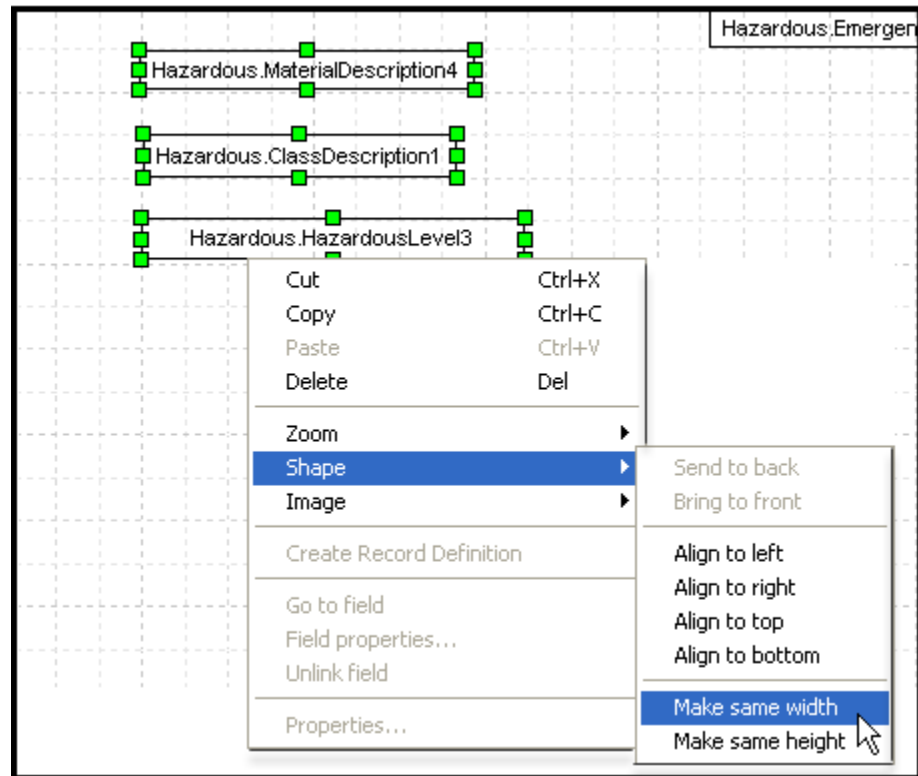
Alignment: To align elements, select them and click on the Align button in the toolbar. (Alternate method: Select all and right-click, go to “Shape”.)



Resize Multiple Fields:

To change the shape of fields, you can select one or more fields and right-click on them to access a pop-up menu. The following screenshot shows three fields

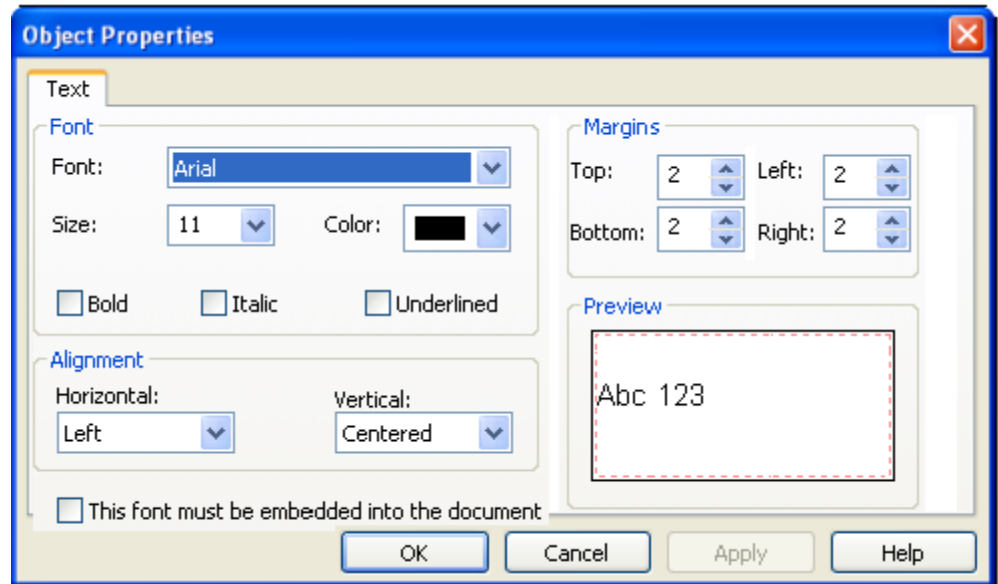
selected and the pop-up menu with the “Shape” command selected to make the three fields the same width:



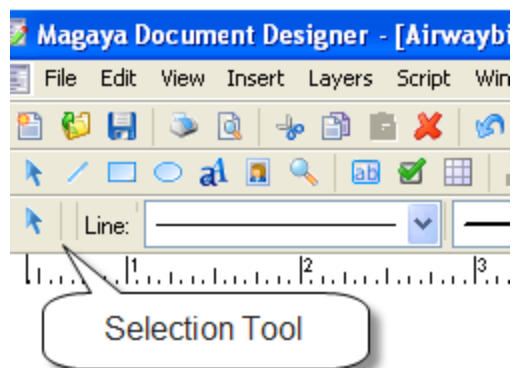
This will make all the selected fields the same width, so you do not have to resize each one separately. You can also align fields by using the Align buttons on the toolbar.

Fonts

To change the font or other properties of the text box, right-click on the text box and select “Properties”. A dialog box opens:

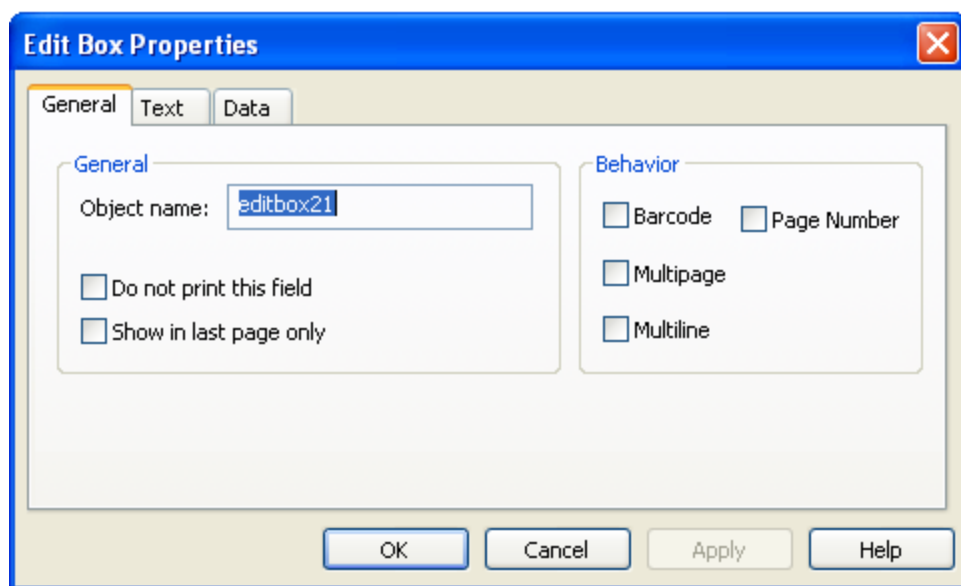


When you create a text box or drag a schema element to the design pane, you will need to click on the Selection Tool button (the arrow icon) to access the right-click menu options such as the Properties.



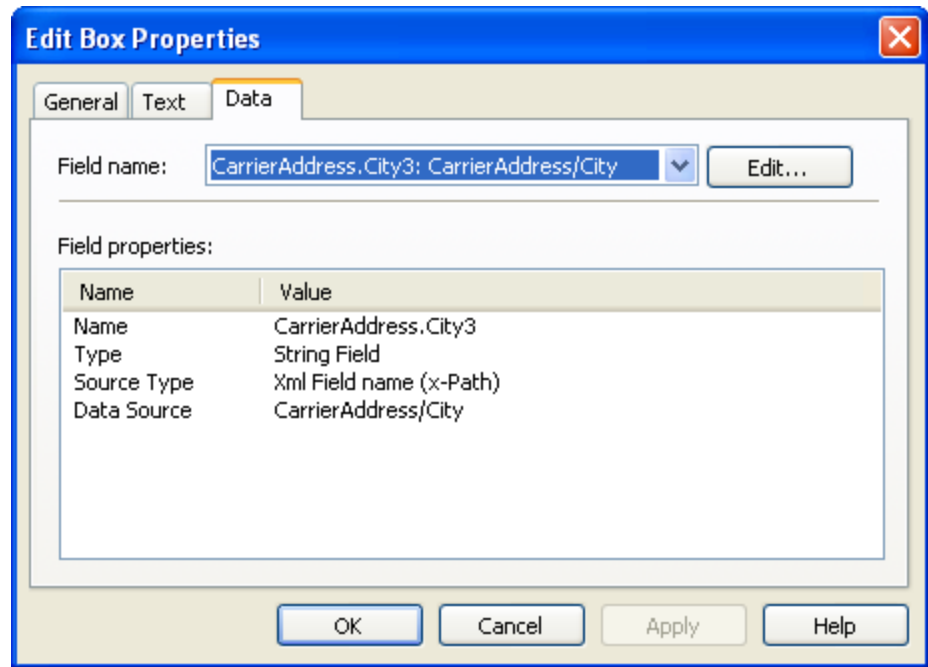
The Object Properties box contains choices for changing the font, alignment of the text inside the box, and margins.

To access the properties of the control, right-click on the control and select “Properties”. A dialog box opens with three tabs:



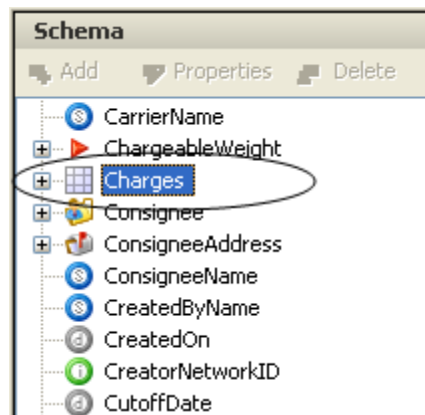
- The General tab shows the name of the object as assigned by the system. Choices are available for printing and other actions such as “Multiline” often used for addresses that have more than one line of text. Add page numbers to templates.
- The Text tab has the same fields as the Object Properties box such as font modifications.

- The Data tab shows the field name and its properties such as the x-path of the field (the Data Source). X-path is a unique XML path that leads to this field and no other.



Tables

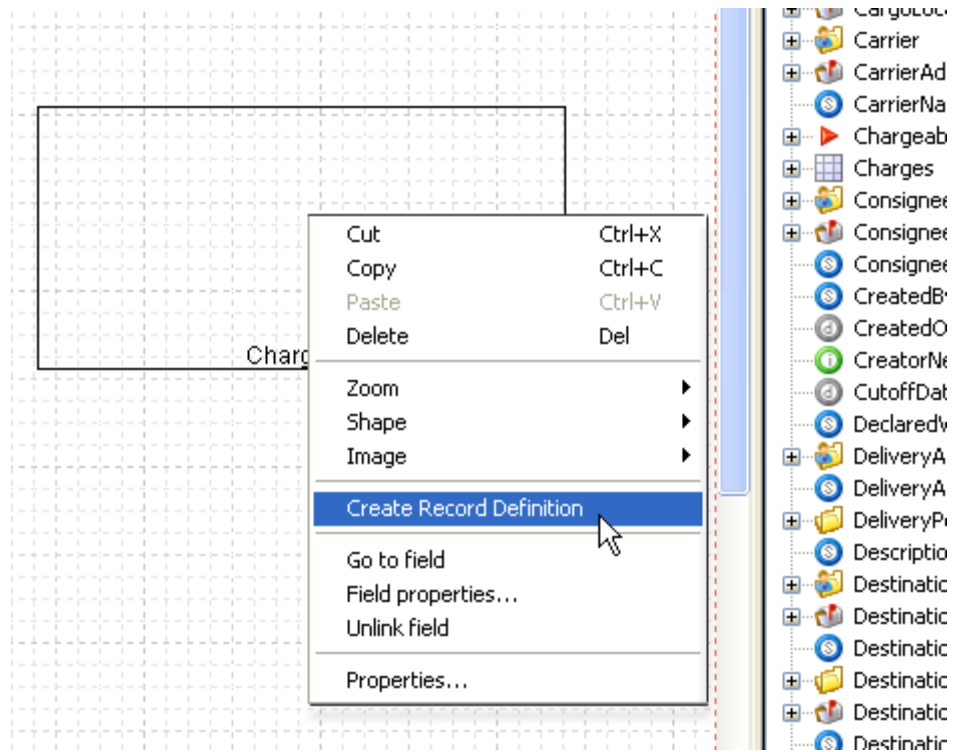
To create a table, click on the element you need such as Charges. The element has a table icon:



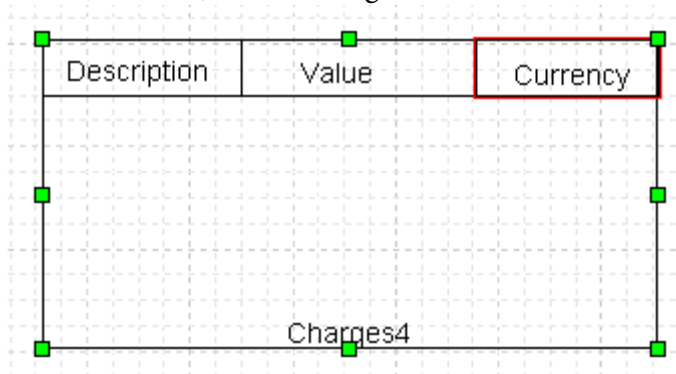
Click and drag the Charges element to the Design pane. It will appear as a box with the word “Charges” inside it.

To add cells to the table, right-click on the field to access a pop-up menu. For example, if you need a table with the Description, Value, and Currency, then

create a table with three columns to collect this data. Select “Create Record Definition”.



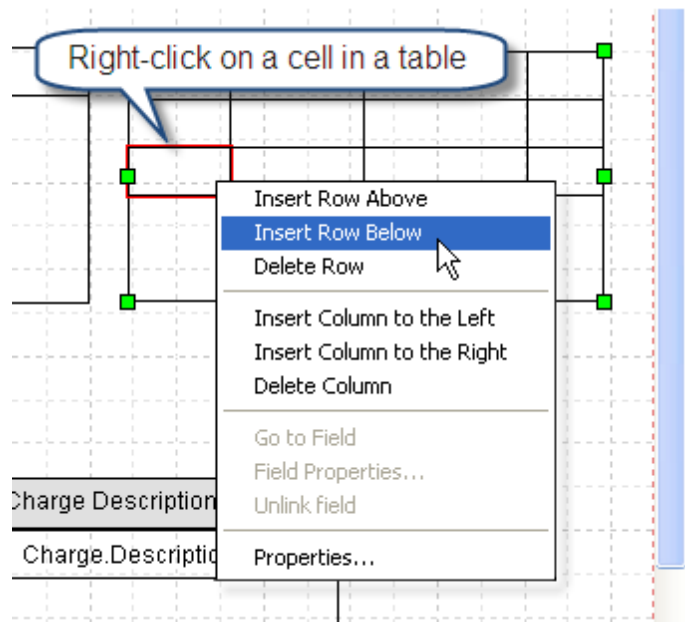
This will add cells (columns) in the Charges table:



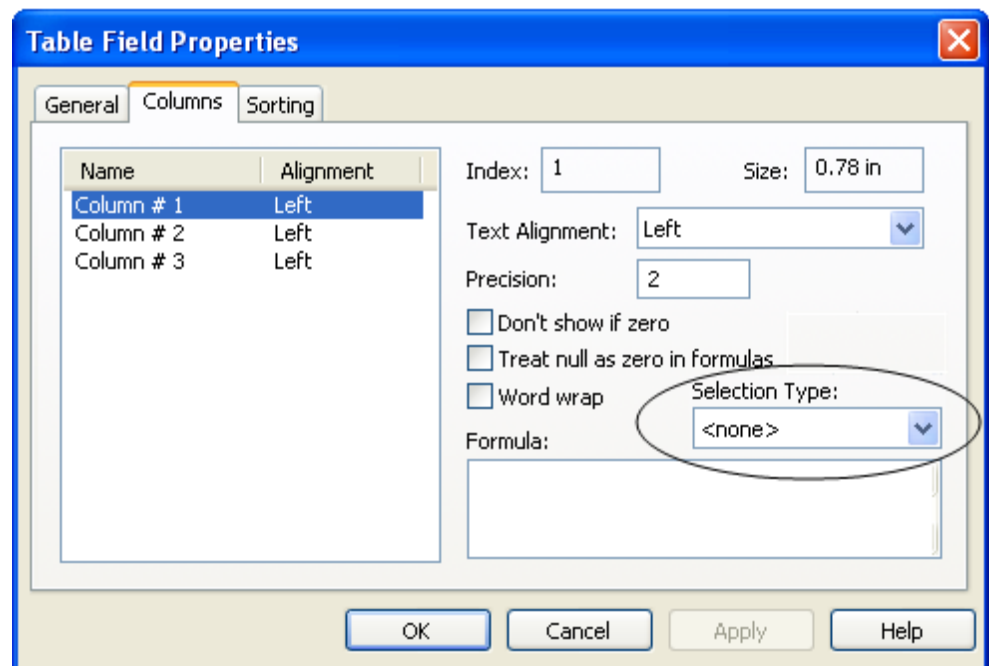
Add text boxes for the column names.

You can click and drag on the column lines to adjust the width of each.

To add more rows of cells, right-click on a cell and select from the pop-up menu:

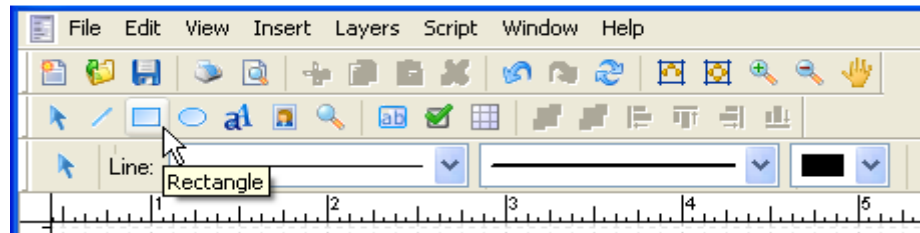


For additional table properties, right-click on a table and select “Field Properties” from the pop-up menu. In the dialog box, click on the Columns tab and set the column properties:

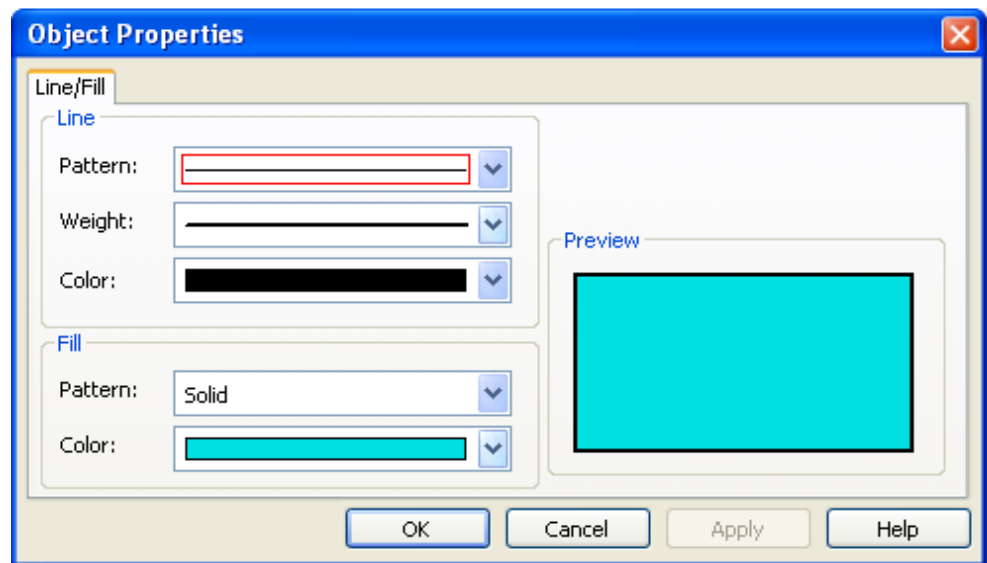


Also available in this Table Field Properties dialog box is the option to add a dropdown list to a form: Click on the “Selection Type” dropdown.

To add a table header, click on the Rectangle button on the toolbar.

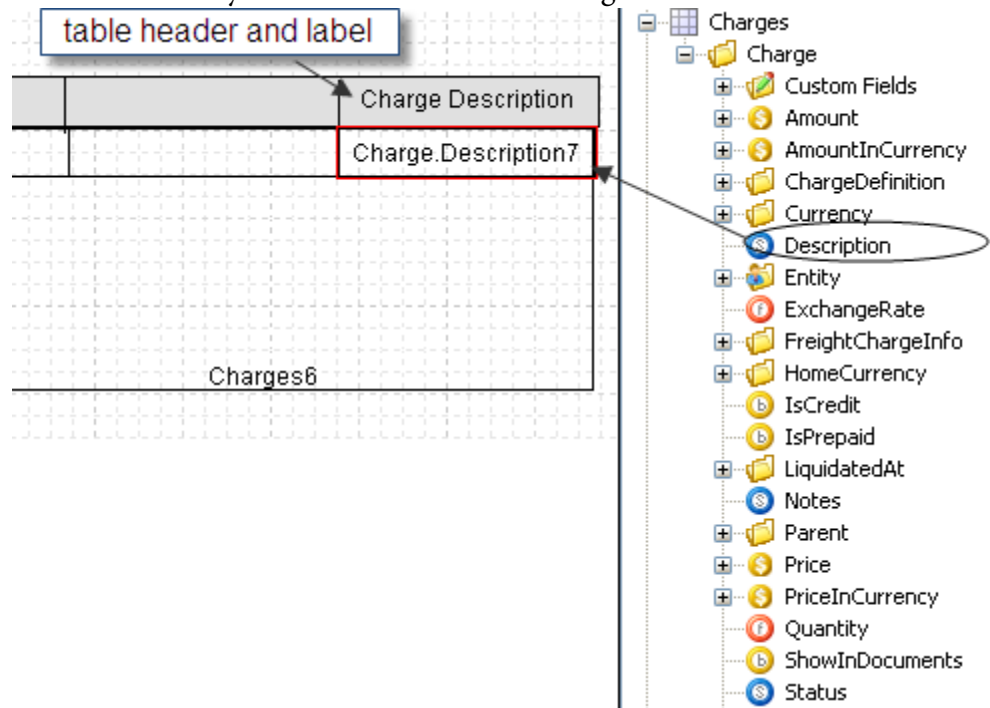


Draw the rectangle above the table. To access the properties of the rectangle, click on the Selection tool button (the arrow) and then click on the rectangle. Next right-click on the rectangle and select “Properties” from the pop-up menu. Use this menu to choose fill color and border lines.



To add more columns to a table, right-click on an existing column to access a pop-up menu of choices such as “Add column to the right”, etc.

To add fields to the table such as charges and the information about the charges, select the schema you want in the table and drag them to the table.



The Magaya Explorer gathers many pieces of information about shipments and their charges. With the Magaya Document Designer, you can create a custom form with the shipping charges you want to show in the form.

Add Custom Fields to a Template

If you added Custom Fields in Magaya Explorer, then you can make the data gathered in those Custom Fields appear in the document. (Custom Fields can be added in the Maintenance folder > Configuration > Custom Fields.)

Custom fields may be used to gather data on transactions such as a Warehouse Receipt (WR). If you ship vehicles, for example, you may need to know if the title or keys are with the vehicle.

First create the custom field in Magaya Explorer, and then add the custom field to the WR document template. *Tip:* Remember the “Internal Name” assigned to

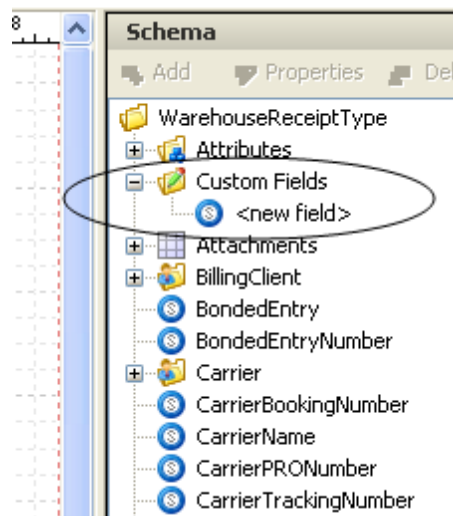
the custom field. You will need it when you are working in the Magaya Document Designer.

To add a custom field to a template such as a WR, go to the WR document and click the “Actions” button.

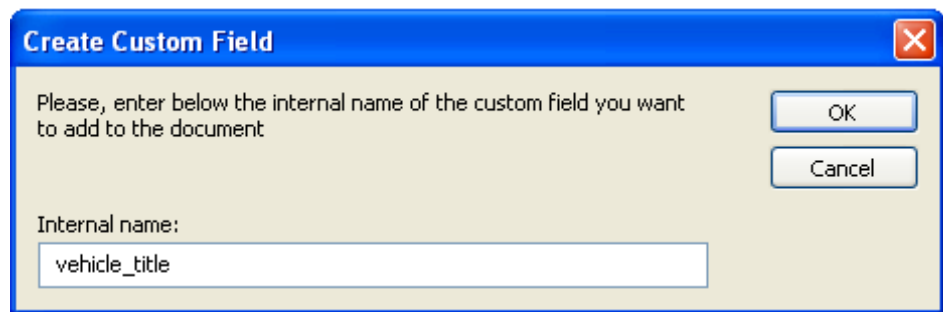
- 1) From the Actions button’s dropdown menu, click “Select Template”.
- 2) Select a document template from the list and click the “Copy” button.
- 3) Rename the file and save it in the same folder as the other document templates: the Magaya software Forms folder (in the same place your software is saved, usually).

When the Magaya Document Designer application opens, follow these steps.

- Make room for the new field in the template by clicking and dragging on an existing box so there will be a space for the new field.
- Expand the element “Custom Field” by clicking on the plus sign.



- Drag the sub-element <new field> to the Design pane into the space you created on the template. A dialog box opens:



- Enter the Internal Name of the custom field. The Internal Name is the name assigned by Magaya Explorer when you created the Custom Field in

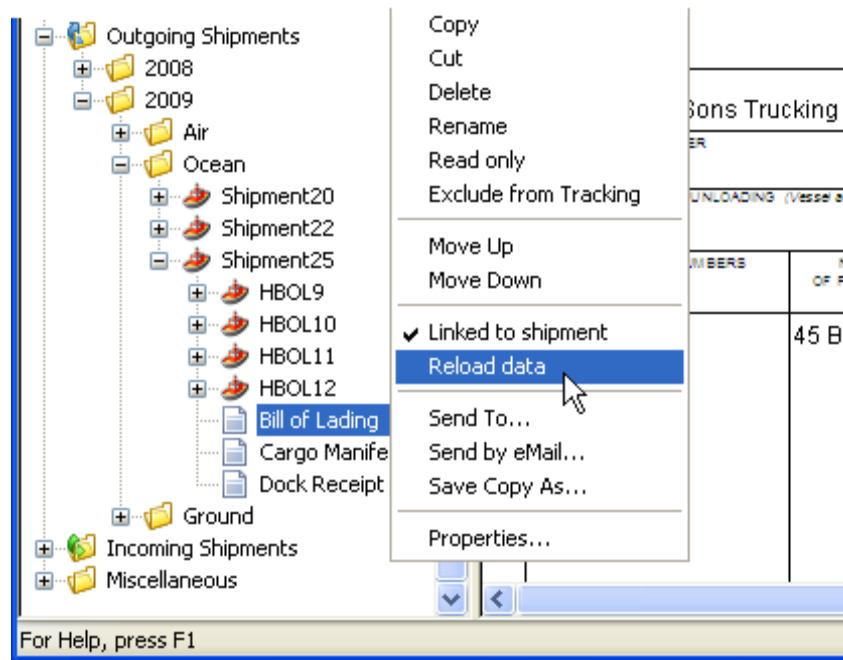
the Maintenance folder. (*Important:* Use the same internal name or the Magaya system will not find the data.)

This custom field will populate with data from Magaya Explorer. You can add a caption (or label) to this custom field to identify it. For this example, the label could be “Is the title with the vehicle?” The answer field can be a dropdown or a text field to enter Yes or No.

To add text to the text box, click the Arrow button on the toolbar and then double-click the text box to activate it.

To make the field display the way you want it to, right-click on the field and select Field Properties > Format > Boolean.

Note: If you have the transaction document open in Magaya Explorer while you make changes in the Magaya Document Designer, you will need to **reload** the data into the form to see the custom field. To reload, right-click on the document name in the folder list in Magaya Explorer. From the pop-up menu, select “Reload data”:



Page numbers can be added by adding a new Edit Control. In the Properties, check the option for page numbers. The system will automatically output “Page 1 of 5” for example.

Here is an example of a Cargo Release with a Custom Field added to gather information required by the TSA (the U.S. Transportation and Security Administration):

1. Create the Custom Field.

The screenshot shows the 'Custom Fields' dialog box. It has two main sections: 'Customizable Elements' and 'Custom Fields'. The 'Customizable Elements' section has a table with columns 'Name' and 'Customized'. The 'Custom Fields' section has a table with columns 'Display Name', 'Internal Name', and 'Type'. A 'Custom Field Definition [Cargo Release]' dialog box is open over the 'Custom Fields' table. It contains the following fields:

Name	Customized
Cargo Release	Yes

Display Name	Internal Name	Type
Is cargo screen...	is_cargo_screened	Yes/No

Custom Field Definition [Cargo Release]

Display Name: Field Type:

Internal Name:

Description:

2. This is how the Custom Field looks in the CR dialog box (on the Custom tab):

The screenshot shows the 'Cargo Release' dialog box. It has a blue header bar with the text 'Cargo Release'. Below the header bar is a tabbed interface with tabs: 'Commodities', 'Charges', 'Events', 'POD', 'Attachments', 'Notes', 'Internal Notes', and 'Custom'. The 'Custom' tab is selected. The 'Custom' tab contains a label 'Is cargo screened?' and a dropdown menu with 'Yes' selected.

3. This is how it looks in the document when you select that template:

Cargo Release

Release Number:	39
Release Date/Time:	Jul/27/2012 11:05 AM
Release By:	

Custom Field in the document:

Is the cargo screened?
Yes

Description	Weight	Volume	Vol Weight

Add an Image or Logo to a Template

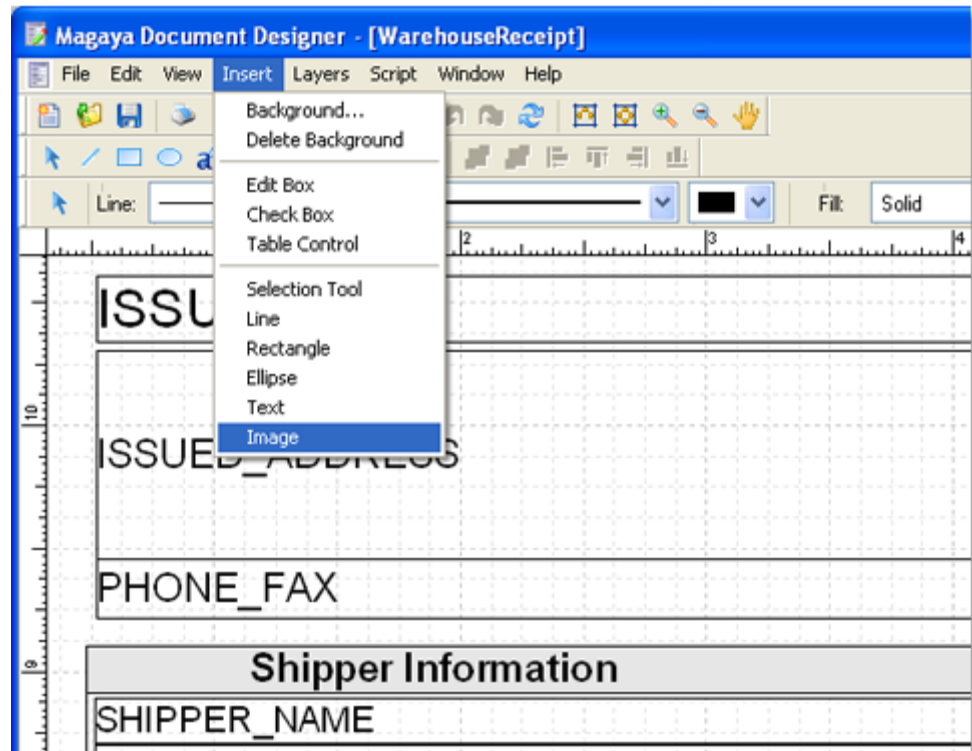
You can add an image or your logo to a template. This example will show how to add a company logo for a fictional company named Zoom Logistics. This is the logo image we will use:



While this example will show how to add a company logo, this can be used for inserting any image.

First, click anywhere on the document to activate it.

- 1) Click on the Image button (or click on the Insert menu and select Image):



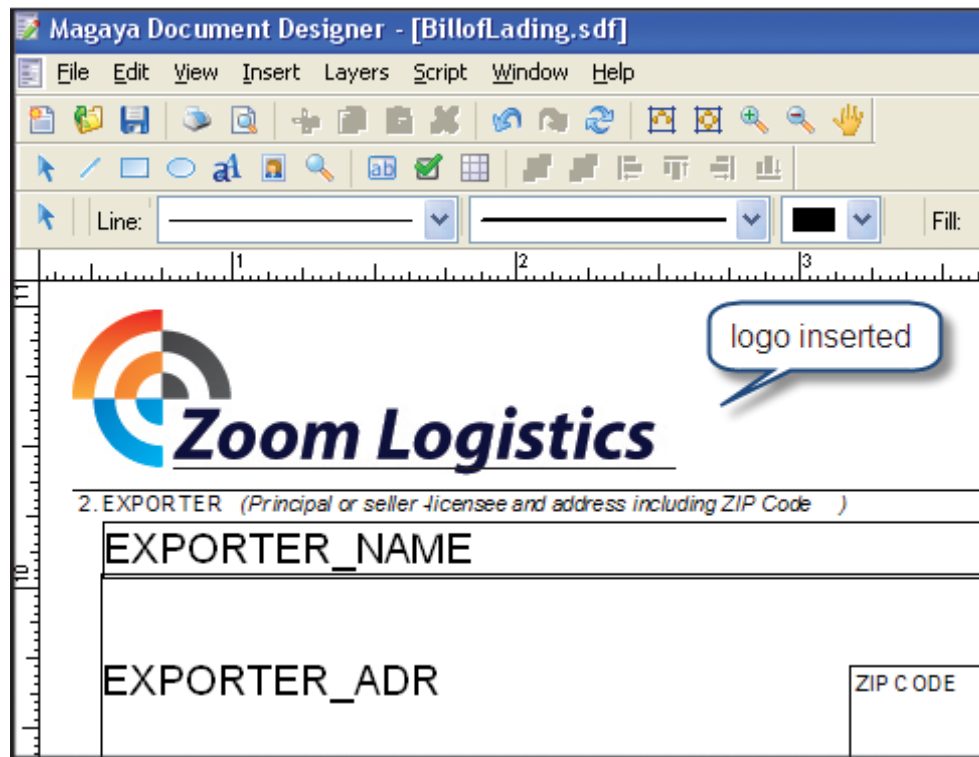
- 2) Draw a box on the document where you want the image to appear. A dialog box opens.
- 3) Select your logo image file from your folder.
- 4) Click OK to insert the graphic.

To adjust the size or shape of the box, click on the Selection tool on the toolbar (the button with the arrow). Squares will appear on the corners of the image box. Click and drag from any square to resize the image.

The image will be fit into the space of the box, stretching the image if needed. To turn off this stretch feature, right-click on the image and select "Image" and select "Stretch" to uncheck the option. Another option in this menu is "Image" and "Adjust control to image". This option will display the image in its original, full size.

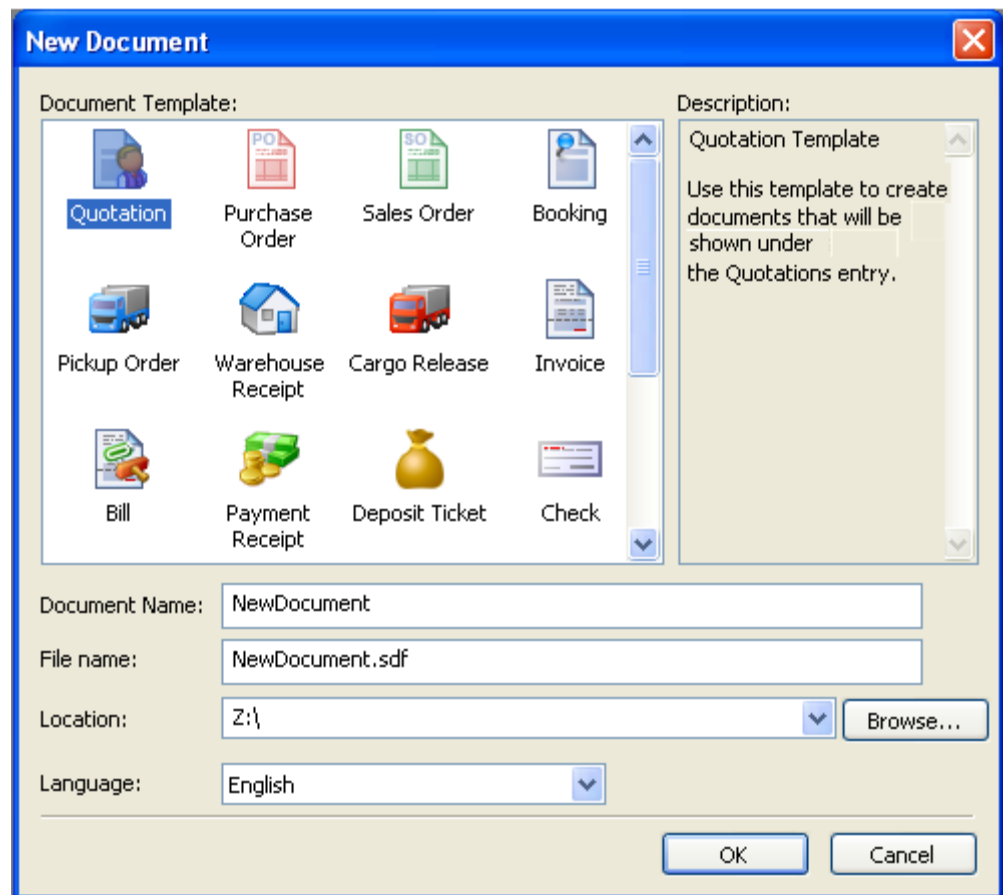
To delete the image, click on the Edit menu and select Undo Insert (or select the image and click the Delete key).

Save the template when you are done. (*Tip:* As with any document you are working on, it is best to save periodically while you are working.)



Create a New Custom Template

To create a new template when you are working in the Magaya Document Designer program, click on File > New. A dialog box opens:



- Select the type of template you want to create.
- Enter a document name. The “File Name” field will automatically update with the new name.
- Save the template in the Forms folder in the Magaya software folder.
- Select the language.

A blank document opens.

Drag and drop the fields you want from the schema list to the Design pane.

Add lines, backgrounds, text boxes, etc. by using the buttons on the toolbars are explained in the section “Customize an Existing Template”.

Publish a Template

To publish a template, click on File > Publish Document (in the Magaya Document Designer). NOTE: Administrative rights are needed to publish a template.

Publish Document to Magaya Network

Document Information

Document Name: Warehouse Receipt Truck Logo Properties...

Document Version: 4

Language: English

Publish Information

Magaya Network ID: Verify Your Magaya Network ID fills in here

Company Name: Your company name fills in here

Password: Enter your password here

Publish Cancel

The dialog box will show your Magaya Network ID and company name automatically. If you are working remotely, the company name will not fill in to the Publish fields automatically. Type in the data.

To change the document name, click on the Properties button.

Click the Publish button.

The template is now available in Magaya Explorer for users. The template can be used by clicking on the Document button (if you are in a shipment) or by selecting the template from the Actions button.

Notes: If a document is over 300 KB, the program will not let you publish it. You will get an error message stating the document is too large and must be resized to be published. Try resizing images to reduce the file size.

If you are working remotely, you can download the document by going to the File menu in Magaya Explorer and select Download Document.

6. JavaScript in the Magaya Document Designer

Introduction to JavaScript in the Document Designer

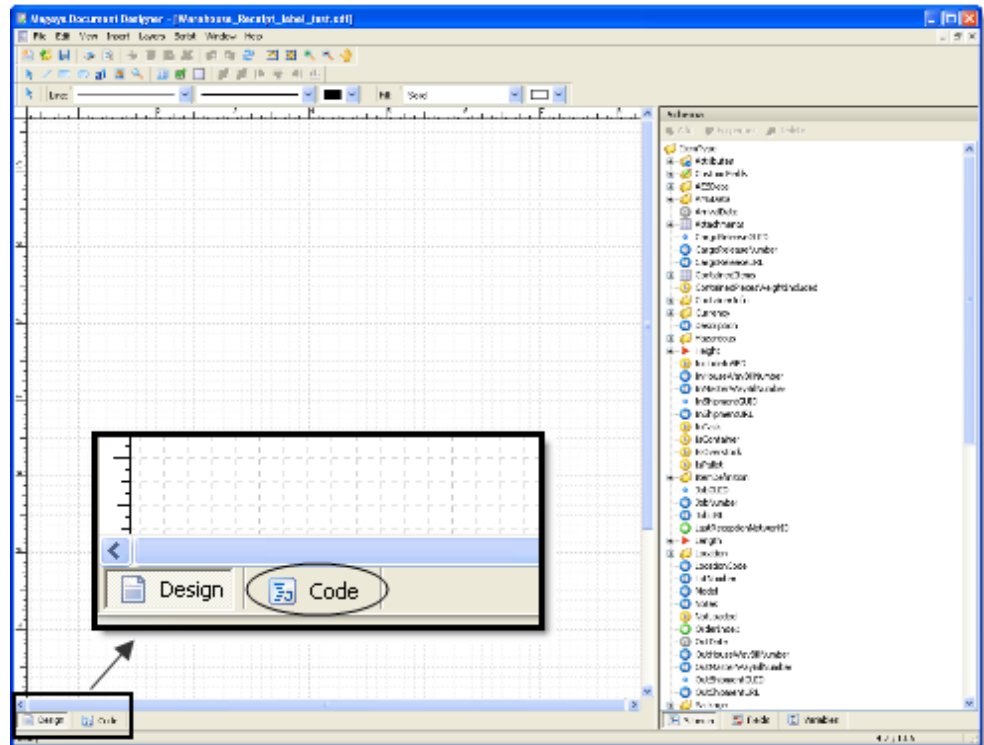
While the Magaya Document Designer program offers many drag-and-drop options to customize documents, sometimes you may need to write JavaScript code for additional functionality.

This topic will explain the tools Magaya provides when you are programming inside your document. Magaya has chosen the JavaScript language which includes functions, loops, conditions, and more. In addition, the JavaScript function in the Magaya Document Designer has two added objects that enable you to access the data you need: **XmlDocument** and **Database** objects:

- The **XmlDocument object** contains many properties and methods that help you code in Magaya Document Designer.
- The **Database object** allows you to query the Magaya Database for information not present in the XML transaction. For example, you can use this object to pull a full warehouse receipt, a shipment, invoice, or any other transaction from the database with a single call.

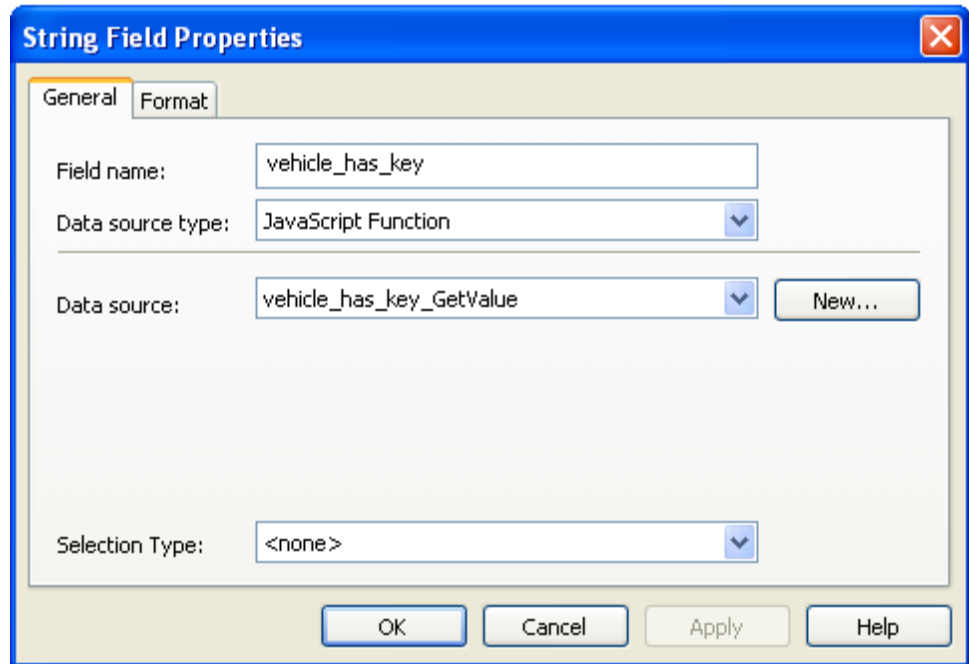
Enter Code into Magaya Document Designer

To enter JavaScript code in the Magaya Document Designer, click on the Code button on the taskbar and begin entering code.

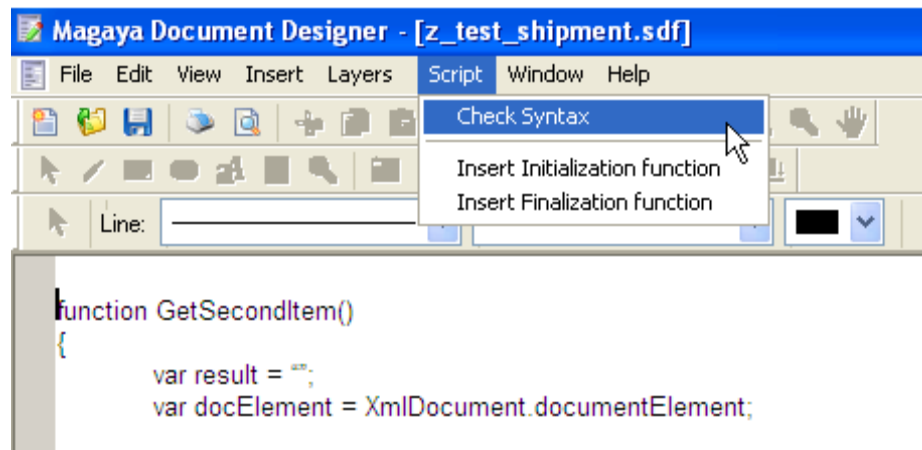


Select the Data Source: Right-click on the Control and select Field Properties. Click on the “Data source” dropdown menu to select a function you made. If you have not created code yet, you can create a placeholder function by clicking

on the “New” button in the dialog box, and type the name of the function. Then you can fill in the details of the code later.



Check Syntax: To check the syntax of code, click on the Script menu on the top of the Magaya Document Designer interface. Select “Check Syntax” from the dropdown menu:



Insert Initialization function: Use this function to load data that will be used frequently inside the document to optimize speed.

Insert Finalization function: Use this function to clean up any resources allocated at Initialization while working in the document.

Save (File > Save) and publish the document when you are done (File > Publish Document).

The XmlDocument Object

Here is a list of the most common properties and methods of the XmlDocument object:

Properties:

- **documentElement:** This property contains the main or top-most element of the XML transaction. This can be a WR element of a Pickup Order element, depending on the document you are working in.
- **attributes:** contains the list of attributes of the node.
- **childNodes:** contains a node list with the child nodes of the node
- **firstChild:** returns the first child of the node.
- **lastChild:** returns the last child of the node.
- **length:** returns the number of items in a collection.
- **text:** represents the text content of the node.
- **value:** contains the attribute value.

Methods:

- **getAttribute:** gets the value of the attribute. Syntax:
`Node.getAttribute(attributeName) ;`
- **item:** allows random access to the individual nodes within the collection. Syntax:
`Node.item(index) ;`
See Example 1 below for more on the item method.
- **selectNodes:** Applies the specified pattern-matching operation to this node's context and returns the list of matching nodes. Syntax:
`Node.selectNodes(expression) ;`
- **selectSingleNode:** Applies the specified pattern-matching operation to this node's context and returns the first matching node. Syntax:
`Node.selectSingleNode(expression) ;`

The above listed properties and methods are the most commonly used and needed when programming in a Magaya document.

Examples of JavaScript for Magaya Document Designer

The following presents five code examples that show how to perform common tasks with code in the Magaya Document Designer.

1. This is an example of the **item** method:

```
function GetSecondItem()
{
    var result = "";
    var docElement = XmlDocument.documentElement;
    var ship_items = docElement.selectNodes("Items/Item");
    if (ship_items != null && ship_items.length > 1)
    {
        var second_item = ship_items.item(2);
        var name_node = second_item.selectSingleNode("Name");
        result = name_node.text;
    }
    return result;
}
```

2. Example of combining data from your Magaya database and displaying it in a document. For example, if you want to display the phone number and fax number of your company, a carrier, or other entity in a form such as a Warehouse Receipt or Cargo Release, you can code the document with JavaScript to gather those two pieces of separate information and display them together this way:

Tel: 305-555-3232 / Fax: 305-555-1212

The following code will combine the two pieces of data:

```
function PhoneFax_GetValue()
{
    var docElement = XmlDocument.documentElement;
    var phone = docElement.selectSingleNode("IssuedBy/Phone");
    var fax = docElement.selectSingleNode("IssuedBy/Fax");
    var phone_fax = (phone == null) ? "" : "Tel: " + phone.text;
    if (fax != null)
    {
        if (phone != null)
            phone_fax += " / ";
        phone_fax += "Fax: " + fax.text;
    }
    return phone_fax;
}
```

Note: You can use JavaScript to combine any two pieces of data in your Magaya database, not just the phone and fax numbers.

Explanation of the above code example:

First, we got the main node of the XML using the `documentElement` property of our `XmlDocument` object and stored it on the `docElement` variable. Then, using the `selectSingleNode` method, the phone and the fax are pulled out from the `IssuedBy` entity.

These two nodes are stored in the `phone` and `fax` variables. Note these are not the phone and fax values but the nodes themselves; we still need to get the values from them.

Next the `phone` variable is tested to see if it contains something; if so, then we extract the text in it by calling the `phone.text` property. We concatenate that result to the text "Tel: " and store it in the `phone_fax` variable. Then we repeat the same steps with the `fax` variable: if we have any value in there, we concatenate it to what we have before in the `phone_fax` variable.

Then the resulting composed string is returned out of the function using the keyword `return`. The resulting string of this function is:

Tel: 305-555-3232 / Fax: 305-555-1212

3. Example of how to display a container number in a document:

```
function ContainerNumber_GetValue()
{
    var result = "";
    var docElement = XmlDocument.documentElement;
    var ship_items =
        docElement.selectNodes("Items/Item[IsContainer = 'true']");
    if (ship_items != null && ship_items.length > 0)
    {
        var container = ship_items.item(0);
        if (container != null)
        {
            var serial_number =
                container.selectSingleNode("SerialNumber");
            result = serial_number != null ?
                serial_number.text : "";
        }
    }
    return result;
}
```

Explanation of the above code sample:

The `documentElement` is stored in the `docElement` variable. Then with this variable, we query the XML for all the items that have a sub-node named `IsContainer` with its value set to 'true'. This will return a list of all the containers in the transaction. This list is going to be stored in the `ship_items` variable.

Next test this variable to know if we obtain at least one container. If so, let's get the first of them by calling the `ship_items.item(0)` method. The param-

eter set to zero (0) indicates that we want the first one because it's a zero-based indexed list. The first container is stored in the `container` variable.

Calling the `selectSingleNode("SerialNumber")` method in the context of the `container` variable, we retrieve the `SerialNumber` node from the container. Then we test if the node exists and extract its text by means of the `text` property. The result is displayed in the document.

4. Example of Dimensions Code in WR Table:

The following code sample shows how the dimensions of items are displayed in a Warehouse Receipt (WR). You can use this code sample to display other fields besides the length, width, and height shown here.

Pcs	Package	Dimensions	Description
	Location	Invoice Number	Notes
	Quantity	PO Number	Part Number
26 Box		36.00x6.00x36.00in	bicycle tires

Code sample:

```
function ItemDimensions_GetValue(base_xpath)
{
    var docElement = XmlDocument.documentElement;
    var length = docElement.selectSingleNode(base_xpath +
        "/Length");
    var length_val = length != null ? length.text : 0;
    var width = docElement.selectSingleNode(base_xpath + "/Width");
    var width_val = width != null ? width.text : 0;
    var height = docElement.selectSingleNode(base_xpath +
        "/Height");
    var height_val = height != null ? height.text : 0;
    var unit = docElement.selectSingleNode(base_xpath +
        "/Length/@Unit");
    var unit_val = unit != null ? unit.text : "";
    if (length_val == "") length_val = "0.0";
    if (width_val == "") width_val = "0.0";
    if (height_val == "") height_val = "0.0";
    return length_val + " x " +
        width_val + " x " +
        height_val + " " +
        unit_val;
}
```

Explanation of the above code:

The `selectSingleNode` method helps here but with a difference. We are concatenating the Length, Width and Height to the `base_xpath` parameter. We are composing the x-path of the dimensions. The reason for this is that we are now inside a table, and this portion of code will be called as many times as items in the warehouse receipt. Magaya Explorer will pass one item at a time and their x-path comes in this parameter. This fills each cell in the table.

When Magaya Explorer calls us with the first item, the `base_xpath` parameter will contain this: "Items/Item[0]". That's why we concatenate to it "/Length" obtaining "Items/Item[0]/Length", that in turn is nothing more than the node representing the length of the first item of the warehouse receipt. Subsequently, Magaya Explorer will call passing "Items/Item[1]", "Items/Item[2]" and so on.

The "at" symbol (@) is used to get the unit for our dimensions string. This symbol is used when you want to reach an attribute instead of a node. In this specific case, Unit is an attribute of the Length node.

5. Example of Code to Display Vehicles in a Shipment:

The following code sample shows how to find all the vehicles in a shipment and report their year, make, model, and VIN in a table. This code will gather this information about the vehicles whether the vehicles are in containers or as loose cargo.

This technique will code for a whole table and not for a single cell. It will build and return a single string consisting of the values of each cell separated by tabs. The only exception is that the last cell of every line will be separated from the first cell of the next line using a line-feed and a carrier-return character instead of a tab.

```
function GetNodeInfo(node)
{
    return node == null ? "" : node.text;
}
function GetVehicleInfoLine(aesdata_node)
{
    var year =
        aesdata_node.selectSingleNode("VehicleData/ModelYear");
    var make =
        aesdata_node.selectSingleNode("VehicleData/Make");
    var model =
        aesdata_node.selectSingleNode("VehicleData/Model");
    var vin =
        aesdata_node.selectSingleNode("VehicleData/VehicleID");
    var info_line =
        GetNodeInfo(year) + "\t" +
        GetNodeInfo(make) + "\t" +
        GetNodeInfo(model) + "\t" +
        GetNodeInfo(vin) + "\r\n";
    return info_line;
}
// entry point
function VehicleList_GetValue()
{
    var result = "";
    var docElement = XmlDocument.documentElement;
    var ship_items = docElement.selectNodes("Items/Item");
    if (ship_items != null && ship_items.length > 0)
```

```

{
  for (i = 0; i < ship_items.length; i++)
  {
    var cur_item = ship_items.item(i);
    var is_container =
      cur_item.selectSingleNode("IsContainer");
    if (GetNodeInfo(is_container) == 'true')
    {
      var container_items =
        cur_item.selectNodes("ContainedItems/Item");
      if (container_items != null &&
          container_items.length > 0)
      {
        for (j = 0; j < container_items.length; j++)
        {
          var cur_cont_item =
            container_items.item(j);
          var is_vehicle =
            cur_cont_item.selectSingleNode(
              "AESData/VehicleData");
          if (is_vehicle != null)
          {
            var aesdata_node = cur_cont_item.
              selectSingleNode("AESData");
            var info_line =
              GetVehicleInfoLine(aesdata_node);
            result += info_line;
          }
        }
      }
    }
  }
  else
  {
    var is_vehicle = cur_item.
      selectSingleNode("AESData/VehicleData");
    if (is_vehicle != null)
    {
      var aesdata_node = cur_item.
        selectSingleNode("AESData");
      var info_line =
        GetVehicleInfoLine(aesdata_node);
      result += info_line;
    }
  }
}
return result;
}

```

Explanation of the above code:

First, note that we have more than one function. As in the rest of the cases, Magaya Explorer will call only one of them, the `VehicleList_GetValue` function, but we are going to call the other two from inside this one.

Take the document element node by means of the `XmlDocument.documentElement` property. Then we retrieve the list of all the shipment items by calling `docElement.selectNodes("Items/Item")` and store it on the `ship_items` variable.

Once we have all the items, we need to iterate through them. For that purpose we make a loop:

```
for (i = 0; i < ship_items.length; i++)
{
    ...
}
```

This statement will initialize the variable `i` in zero and will be increasing this variable at the end of each iteration by means of `i++`, while the statement `i < ship_items.length` is met. In other words, this sentence will repeat what's inside its braces as many times as items the shipment has.

Now, in each loop iteration we are will get a new item of the shipment by calling:

```
var cur_item = ship_items.item(i);
```

Note that `i` will be changing its value from zero (0) to the number of items of the shipment minus one. So, we take the `i`th item of the shipment in each iteration.

At this point we test if the item is a container by means of

```
var is_container = cur_item.selectSingleNode("IsContainer");
```

If that is the case, we need to look inside the container to extract the vehicles from there. In order to do this we call:

```
var container_items =
    cur_item.selectNodes("ContainedItems/Item");
```

This statement will extract all the sub-items of the container and place them as a list in the `container_items` variable. Note that the `selectNodes` method is called in the context of the container itself.

Here, we need to make another loop to get through the items inside the container and see if any of them is a vehicle. We test if the item is a vehicle as follows:

```
var is_vehicle =
    cur_cont_item.selectSingleNode("AESData/VehicleData");
```

If this node exists, then we can be sure that we are dealing with a vehicle. So, we need to pull out its information. For that purpose we have made the function:

```
function GetVehicleInfoLine(aesdata_node)
```

This function receives the `AESData` node as a parameter, extracts the required information from there, puts it all together separated by tabs and returns it to the caller. Once returned, the line is concatenated to the previous ones and stored in the `result` variable.

The rest of the code works in a very similar way. It collects the information of possible vehicles present in the shipment as loose cargo.

The Database Object

The Database Object is a way to access the Magaya Database. It allows you to query the Magaya Database for information not present in the XML transaction. Using this object, you can pull a full warehouse receipt, a shipment, or any other transaction from the database and get all the information from it with a single call. This information can then be put into a custom document.

The following list of methods is used to retrieve a specific transaction from the database:

```
GetWarehouseReceipt(number, flags);
GetShipment(number, flags);
GetCargoRelease(number, flags);
GetPickupOrder(number, flags);
GetInvoice(number, flags);
GetItemDefinition(number, flags);
GetBooking(number, flags);
GetQuotation(number, flags);
GetBill(number, flags);
GetJob(number, flags);
GetPurchaseOrder(number, flags);
GetSalesOrder(number, flags);
GetWarehouseItem(number, flags);
```

Each one has two parameters:

- The first parameter, `number`, is the global unique identifier (GUID) of the transaction. This GUID uniquely identifies a given transaction.
- The second parameter, `flags`, is used to customize the call. It allows you to tell the method what kind of information to retrieve in the call. If you don't want to deal with this parameter, just pass a zero (0).

If you want to manipulate what is coming out from this call, here is a list of the possible values for the flags:

Name	Value	Description
XML_INCLUDE_INC_CHARGES	0x00000001	process income charges, by default are not included
XML_EXCLUDE_ATTACHMENTS	0x00000002	do not process the attachments
XML_NO_WRITE_HOUSES	0x00000010	do not process houses
XML_TRANS_EVENTS_ONLY	0x00000020	do not process events of related transactions
XML_ATTACH_DOCS_SUMMARY	0x00000040	transmit only the attachments/documents description but not data
XML_INCLUDE_RELATED_OBJ	0x00000080	included related transaction like invoices for a shipment
XML_EXCLUDE_DOCUMENTS	0x00000200	do not include the shipment documents in the XML
XML_INCLUDE_EXP_CHARGES	0x00000400	process expense charges, by default are not included
XML_CREATE_ENTITIES	0x00000800	use entities information in transaction to add the entities to the database
XML_EXCLUDE_SUBITEMS	0x00008000	Exclude subitems inside items
XML_INCLUDE_TRANSACTION_URL	0x00020000	Include related transactions URL to access via Transaction Tracking
XML_BASIC_FIELDS	0x00080000	Write the basic fields in any object

Note that you cannot use the name of the flag in your JavaScript code; instead you have to pass the associated values.

Database Object Example 1:

When working on a Warehouse Receipt Label document, all we have in the XML is the information related to the warehouse item for which we are printing the label. If more information is needed, we need to go back to the database and pick from there what we need such as the name of the issuing company:

```
function IssuedByName_GetValue()  
{  
    var result = "";  
    var docElement = XmlDocument.documentElement;  
    var whr_id =  
        docElement.selectSingleNode("WarehouseReceiptGUID");  
    var whr_xml = Database.GetWarehouseReceipt(whr_id.text, 0);  
    if (whr_xml != null)  
    {  
        var whr_doc_elem = whr_xml.documentElement;  
        var issued_name =  
            whr_doc_elem.selectSingleNode("IssuedByName");  
        if (issued_name != null)  
        {  
            result = issued_name.text;  
        }  
    }  
    return result;  
}
```

Explanation of the above code:

For this code, we get the document node to start working with our item. Then, we extract the GUID of the warehouse receipt where the item resides by calling:

```
var whr_id =  
docElement.selectSingleNode("WarehouseReceiptGUID");
```

Once we have the GUID in the `whr_id` variable, we can query the database for the full warehouse receipt transaction:

```
var whr_xml = Database.GetWarehouseReceipt(whr_id.text, 0);
```

The resulting variable will contain the XML associated to the specified warehouse receipt, giving us full access to all its data. From here on, the work is similar to what we have been doing in the other examples. We take the document node for this new XML:

```
var whr_doc_elem = whr_xml.documentElement;
```

Then we retrieve the desired data - the name of the issuing entity:

```
var issued_name =  
whr_doc_elem.selectSingleNode("IssuedByName");
```

Retrieving Related Transactions:

The Database object offers us a couple of functions that are very useful when we need to know about the cargo operations related to a given accounting transaction or when we want to know about the accounting transactions related to a given cargo operation.

```
GetAccountingTransactions(type, number, flags);  
GetRelatedTransactions(type, number, flags);
```

The `number` and the `flags` parameters mean just the same as they do in the methods explained above. That is, the GUID of the transaction and what we want to be retrieved from the transaction when we call the method. Now, because we don't have a method for every type of transaction but one for them all, we need to specify the type of transaction we are talking about. That's what we use the first parameter for.

Here is a list of the possible values that this parameter can take:

Code	Transaction
WH	Warehouse Receipt
SH	Shipment
CR	Cargo Release
PK	Pickup
IN	Invoice
IV	Item Definition
BK	Booking
QT	Quotation
BI	Bill
JB	Job
PO	Purchase Order
SO	Sales Order
WI	Item

If we want to retrieve all the accounting transactions associated with a given shipment, we can do something like this:

```
var acc_list = GetAccountingTransactions("SH", shipment_guid, 0);
```

where "SH" means that we are talking about a shipment and `shipment_guid` is the shipment that we are talking about.

These methods return an XML document containing pairs of transaction types and GUID. So, in the previous example, when retrieving the shipment-associated accounting transactions, if there is an invoice and/or a bill associated with it, the result will be something like this:

```

<GUIDItems>
  <GUIDItem>
    <GUID>746CA237-AEFF-4a65-B0C6-B1E7D876A414</GUID>
    <Type>IV</Type>
  </GUIDItem>
  <GUIDItem>
    <GUID>146CA237-AEFF-5c65-B0D6-B1E7D876A414</GUID>
    <Type>BI</Type>
  </GUIDItem>
</GUIDItems>

```

Once we have that XML result, we can call the functions `GetInvoice` and `GetBill` to retrieve them from the database using the retrieved GUID.

Database Object Example 2:

This example will retrieve all the accounting transactions associated with a shipment and put it all together in a table field:

```

function TableField_GetValue()
{
  var result = "";
  var docElement = XmlDocument.documentElement;
  if (docElement)
  {
    var ship_guid = docElement.selectSingleNode("@GUID").text;
    var ship_type = docElement.selectSingleNode("@Type").text;
    var xml_doc = Database.GetAccountingTransactions(
      ship_type, ship_guid, 0);
    if (xml_doc)
    {
      var guid_list = xml_doc.documentElement;
      var guid_nodes = guid_list.selectNodes("GUIDItem");
      for (i = 0; i < guid_nodes.length; i++)
      {
        var item = guid_nodes.item(i);
        var trans_guid = item.selectSingleNode("GUID").text;
        var trans_type = item.selectSingleNode("Type").text;
        var number = 0;
        var amount = 0;
        if (trans_type == "Invoice" ||
            trans_type == "CreditMemo")
        {
          var ar_xml_doc = Database.GetInvoice(
            trans_guid, 0);
          var inv_node = ar_xml_doc.documentElement;
          if (inv_node)
          {
            number = inv_node.
              selectSingleNode("Number").text;
            amount = inv_node.
              selectSingleNode("TotalAmount").text;
          }
        }
      }
    }
  }
}

```

```
        else //bill or bill credit
        {
            var ap_xml_doc =
                Database.GetBill(trans_guid, 0);
            var bill_node = ap_xml_doc.documentElement;
            if (bill_node)
            {
                number = bill_node.
                    selectSingleNode("Number").text;
                amount = "-" + bill_node.
                    selectSingleNode("TotalAmount").text;
            }
        }
        result +=
            trans_type + "\t" +
            number + "\t" +
            amount + "\r\n";
    }
}
return result;
}
```

The code example above shows the character "\t" means tab to the next cell in a table. To go to the next line, use "\r\n". To go to the next page, use "\f".

All the elements of this code have been explained previously.

The last code to explain are conversion methods. They are a group of methods that allow you to convert a value expressed in a given measure unit to another different unit:

```
ConvertWeight(source_value, source_unit, target_unit);
ConvertLength(source_value, source_unit, target_unit);
ConvertVolume(source_value, source_unit, target_unit);
ConvertArea(source_value, source_unit, target_unit);
ConvertTime(source_value, source_unit, target_unit);
ConvertVolumeWeight(
    source_value, source_unit, target_unit, vol_weight_factor);
```

All these methods work the same; they take three parameters:

- the value we want to convert,
- the unit in which this value is expressed, and
- in what other unit we want the method to return us the resulting value conversion.

7. Divisions

Introduction to Divisions

Your company may have different divisions. They can vary based on the type of shipping done; perhaps you have one division of employees handling exports and one for imports. Your company may have different divisions in different cities. Other companies may have a division that handles all the ocean shipments and one that handles all the air shipments.

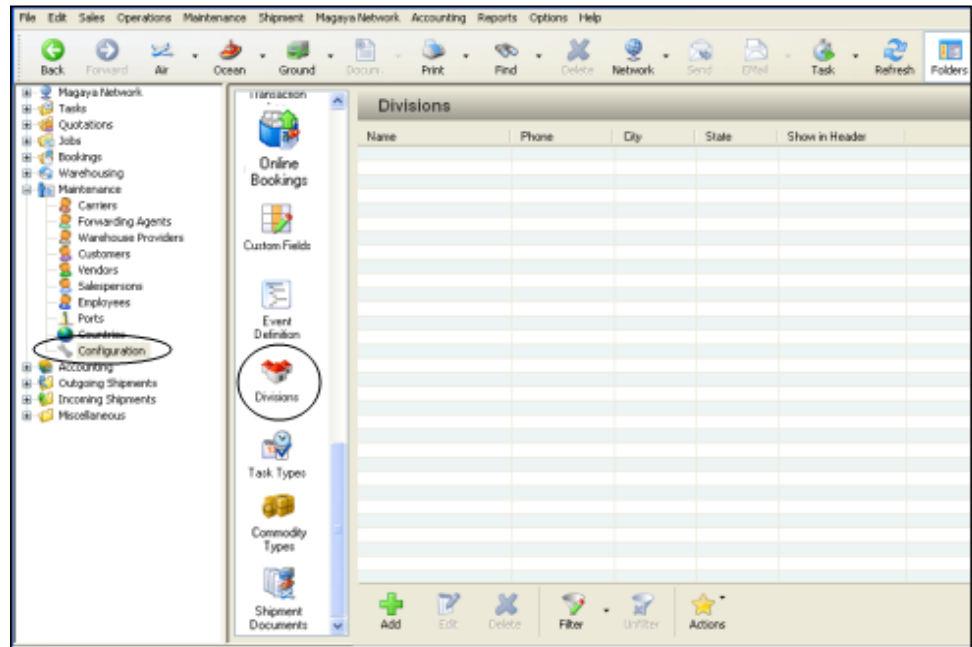
In Magaya Explorer, you can assign divisions according to your needs. Each division can have a separate address and contact information. Then these divisions can be used in transactions such as Cargo Releases, Shipments, and more.

Step-by-Step Procedure: Set Up Divisions

Divisions can only be set up by a person with administrative rights.

- 1) Go to the Maintenance folder in Magaya Explorer.
- 2) Click on Configuration.

3) Select “Divisions” from the vertical menu (you may have to scroll down).



Note: Divisions can also be set up in the Employees subfolder by clicking on the Actions button and selecting “Divisions”. A list opens. The menu on the list has an Add button. This is the same list and Add button that are available in the Configuration subfolder. The Divisions list is also available from the Actions button in the Chart of Accounts.

Click the Add button. A dialog box opens. There are three tabs:

The screenshot shows a 'Division' dialog box with three tabs: 'Division', 'Address', and 'US Customs Codes'. The 'Division' tab is active. It contains the following fields and controls:

- Division Name:** Text box containing 'Ocean Shipments Division'.
- Phone:** Text box.
- Fax:** Text box.
- Email:** Text box.
- Default Company:** Dropdown menu showing 'Lauderdale Logistics'.
- ☐ Use this division in document headers
- Comments:** Large text area.
- Buttons:** OK, Cancel, and Help at the bottom right.

- On the first tab, “Division”, enter the division name.
- Enter the phone number, fax number, and email (optional).
- Select the default company. When you select a default company here, this company and its address will appear in transactions that use that division.
- Check the box if you want this division name to appear in documents such as Air Waybills or Bills of Lading.
- Add any comments as needed.
- Click on the Address tab and enter the address. This address will appear in the documents created by this division.
- Click on the US Customs Codes tab and enter the Air AMS Originator Code (if needed). This is used when filing AMS from the division.
- Click the OK button when you are done.

The Division will be added to the list.

In the Divisions list, you can choose the columns in the list by clicking on the Actions button.

Assign an Employee to a Division

To assign employees to divisions, go to the Employee subfolder under the Maintenance folder.

Select the employee and double-click on their name (or click on the Edit button).

In the dialog box, click on the “User” tab.

Employee

General Address Billing Address Other Addresses **User** Permissions Notes

☐ Disable access for this employee

Password:

Confirm:

Division: [Dropdown Menu] [Red X Button]

☐ Can only see transactions from this division

☐ Allow Magaya OnTheGo access

☒ Allow Magaya Network access

☐ Allow Magaya Software API access

☐ Allow Magaya WMS Mobile access

☒ Allow Magaya POD Mobile access

OK Cancel Help

Select a division

- Select a division for this employee. To remove the division, click on the red x button; this will clear the dropdown field.
- If you want to restrict this employee’s access so they can only view transactions from this division, place a checkmark in the box “Can only see transactions from this division.” This can also be changed at any time by unchecking the box.
- Click OK when you are done to save the settings.

Result: When the Administrator assigns an employee to a division, the employee will not see the Division dropdown menu in their transaction screens. The transactions that employee creates will be automatically assigned to that division; there is no need for them to select the division. Documents created by that employee will automatically display the division name and address.

Using Divisions in Transactions

After divisions have been created, they can be used in transactions such as this Cargo Release:

Create Cargo Release Wizard

General Information
Enter the general information for this cargo release such as the Number, Date and Release To.

☐ Status: Empty

Release Number:

Creation Date:

Release Date: Time:

Employee: Division:

Issued By:

Released to:

The Divisions dropdown is visible to a person who has Administrative rights in the Magaya System and who is not assigned to a division. When the Administrator assigns an employee to a division, the employee will not see the Division dropdown menu in their screen. The employee will not be able to change the division. The transactions that employee creates will be automatically assigned to that division; there is no need for them to select the division.

If you are an administrator who is not assigned to a division, you will see the Divisions dropdown on the General tab of transactions such as Pickup Orders and Warehouse Receipts, or you will see it on the first screen of a shipment wizard.

Divisions can also be assigned to entities such as Customers, Carriers, Agents, and Vendors and to warehouse zones in your Magaya system. Employees in a division will only see entities or warehouse zones in their division.

This Cargo Release document below will show the “Ocean Shipments” division name and address, not the “Issued By” company name and address in the document:

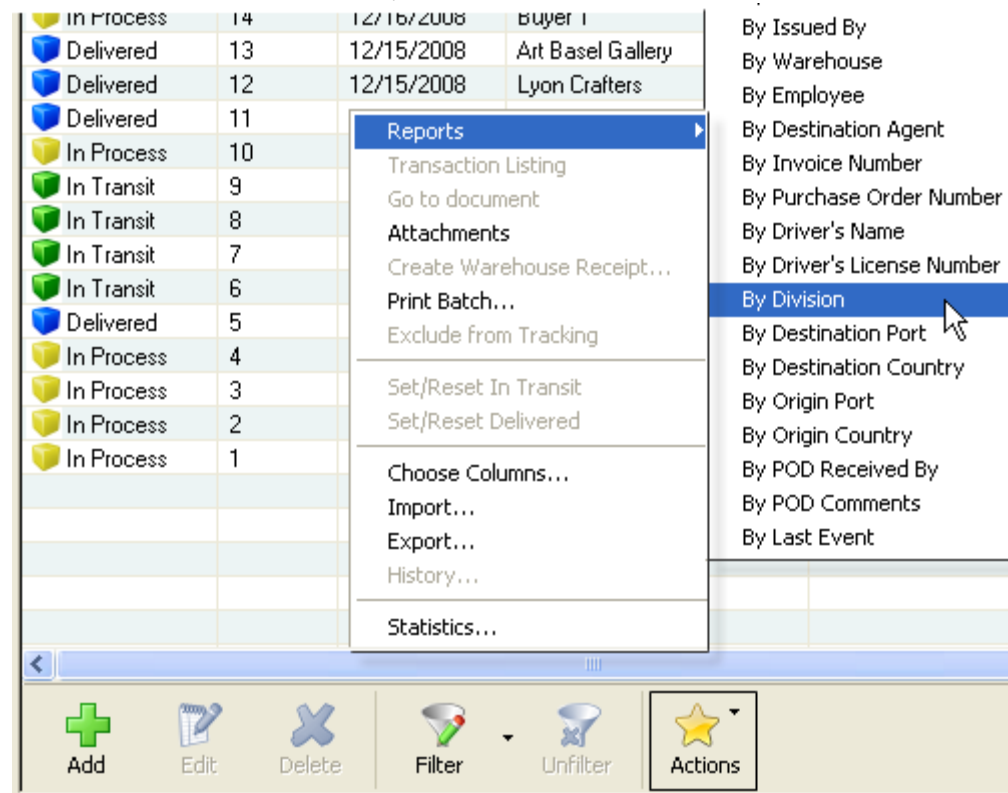
 Delete	 Find	 Filter	 Unfilter	 Actions	 Zoom	 << Page	 Page >>	 Options
Ocean Shipments								
34 Miracle Mile, Coral Gables, FL UNITED STATES								
Cargo Release								
Release Number:						7		
Release Date/Time:						Jul/17/2009 02:51 PM		
Release By:						Ilene Taylor		

Reports by Division

To create reports by division, go to the list you need to create a report about such as the Pickup Orders List or Warehouse Receipts List.

Click on the Actions button, and select “Reports”.

In the pop-up menu, select “By Division”.



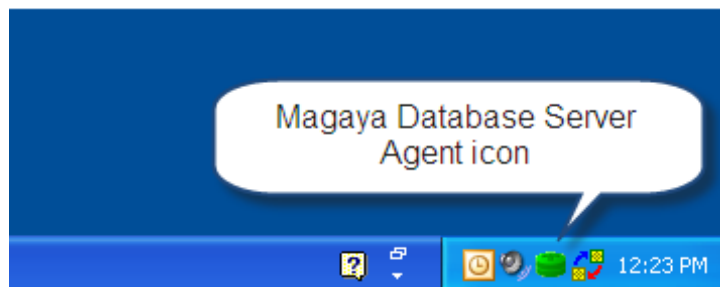
All the transactions for that division will appear in the report.

8. Magaya Database Administration

Introduction

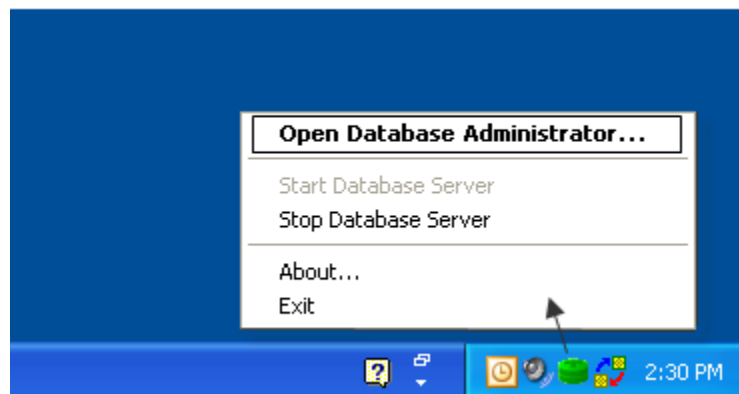
The Magaya Database Server Agent contains all the functions needed to manage your Magaya database, including tools to optimize your database performance, to create a backup of the database, and how to set up an automated backup schedule.

To access the Magaya Database Server Agent, right-click on the taskbar icon for the Magaya Database Server Agent (or double-click on it).

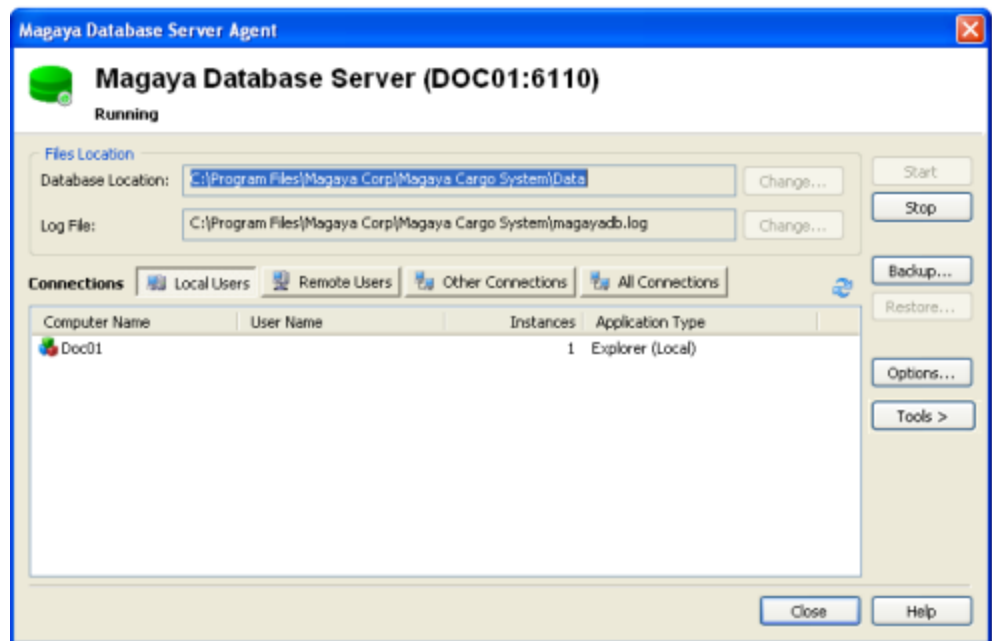


When you right-click on the icon, a menu pops up.

Select "Open Database Administrator".



A dialog box opens:



If the database is not running, click the Start button.

Working with the Magaya Database Server Agent

The dialog box for the Magaya Database Server Agent shows the following information about your Magaya database:

- The database computer number and the port for this database are listed on the top.
- The status of the database is noted on the top, for example, “Running” or “Stopped”.
- **Database location:** Where the data is located. To change the file location, stop the database first. The “Change” button is grayed out when the database is running.
- **Log File:** This is a trace file of events such as who opened sessions and when, disconnections, etc. To change the file location, stop the database first. The “Change” button is grayed out when the database is running.

- **Connections:** As you click on each tab, the computer name, user name, number of instances, and the application type that is running are displayed. The tabs are:
 - Local Users
 - Remote Users (such as those accessing the database via Magaya OnTheGo)
 - Other Connections such as the Magaya Communication Server Agent
 - All Connections
- **Refresh button:** To refresh the view of the database by clicking the icon of the two arrows in a circle.
- **Stop button:** To stop the Magaya Database Server Agent. First all users *must* log off. If any users are connected when you click the Stop button, a notice will appear asking if you want to continue while they are open. This is NOT recommended. It will close their connection and could cause data to be lost. Do not stop the database while users are logged in.
- **Start button:** This will restart the same database.
- **Backup button:** To create a back up of your database, either a full backup or an incremental backup.
- **Restore:** To select another database. A window opens. Before using the Restore button, stop the database first.
- **Options:** This button opens a dialog box with options to set up a schedule to automate the database backup process and set the amount of memory you want the database to use.
- **Tools:** This button opens a dialog box to shrink the database. The database must be stopped. See the section on Database Performance for steps. The steps also include some settings needed in the Maintenance > Configuration folder of your Magaya Explorer.

Backups

The Magaya database can be backed up in full or in part (incremental).

Create a Full Backup of Your Magaya Database

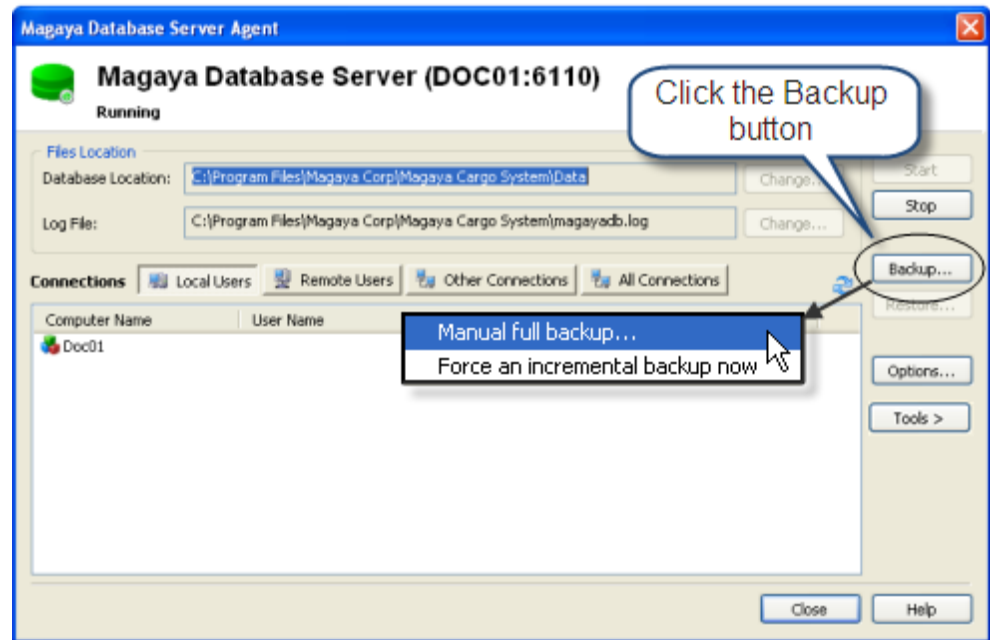
Creating a full backup of your database is recommended before you perform an online update of your software or any time you want a backup of your data.

The Full Backup process will make a backup all your system data in contrast to an incremental backup, which creates a partial backup of only the data that has changed since the last full backup. For more on incremental backups, see the section “Create an Incremental Backup”.

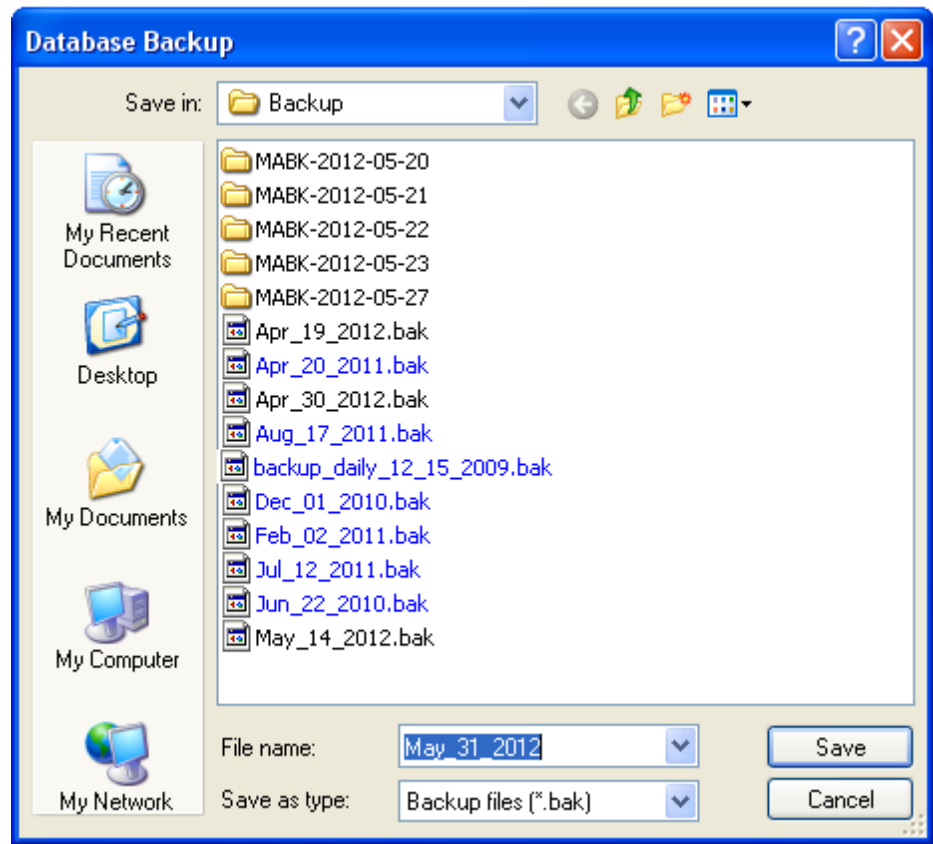
To create a **full manual backup**, follow these steps:

- 1) Open the Magaya Database Server Agent by right-clicking on the Magaya Database Server Agent icon in your computer’s taskbar. (Alternate: Double-click on the icon to open it.)
- 2) Select “Open Database Administrator” from the pop-up menu.

- 3) Click the Backup button.
Select “Manual Full Backup” from the pop-up menu.



A dialog box opens, showing your computer files.



- 4) Navigate to the folder that you want to use as the location to save the backup (or use the default location).

The full backup file has an extension of **.bak** added to the end of the file name. The file name includes the date.

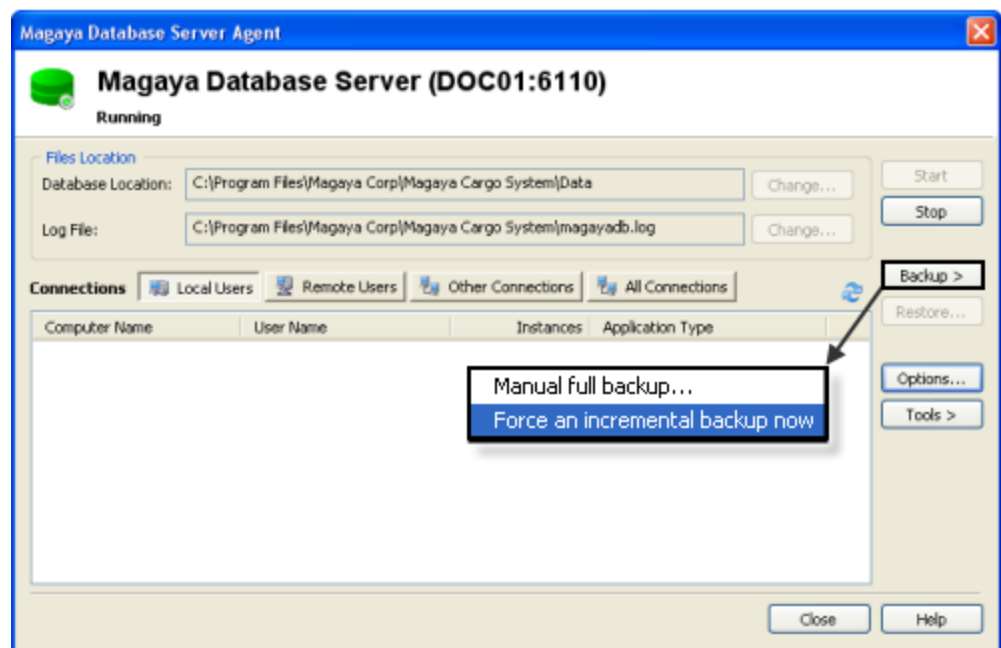
- 5) Click “Save”. The length of time required to save it depends on the size of your database. If the backup is unsuccessful, the system will notify you. If you need more space, consider deleting old files or placing them on another hard drive.

Create an Incremental Backup

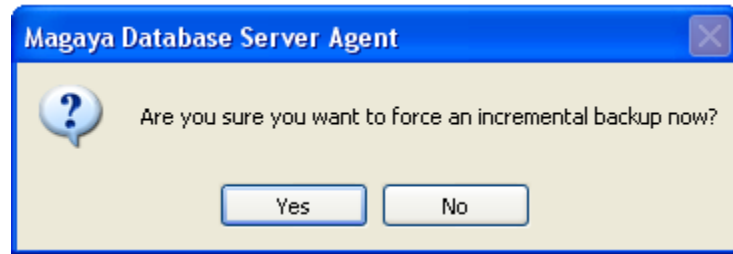
The Incremental Backups feature enables you to backup only the new transactions and data since the last full backup instead of backing up the entire database, which can take hours, depending on the size of your database. Incremental backups can be performed in minutes.

To make your system perform an incremental backup now:

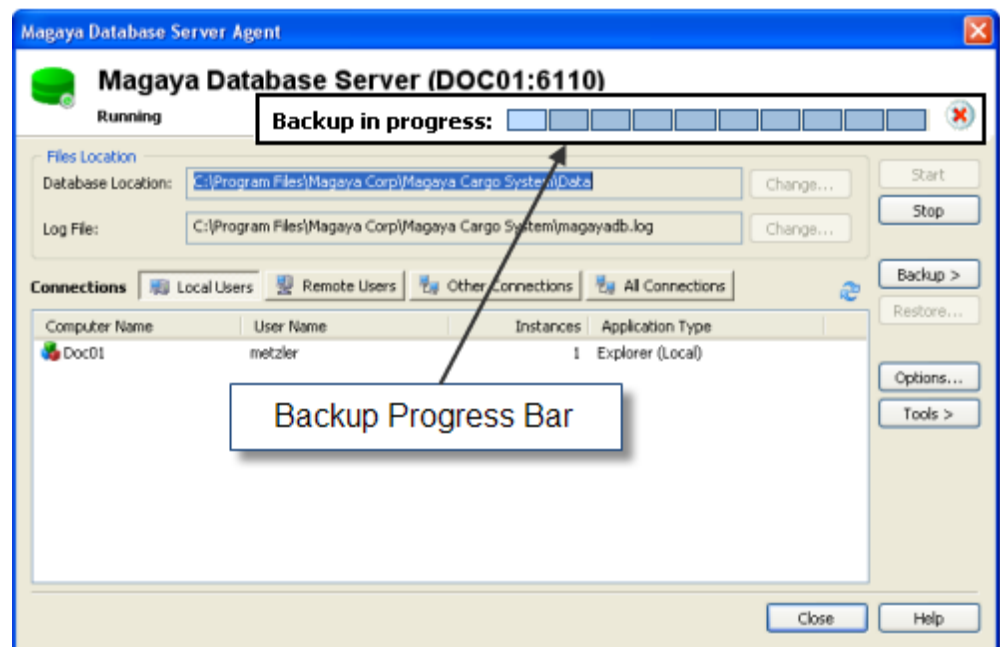
- 1) Open the Magaya Database Server dialog box from the taskbar icon.
- 2) Click the “Backup” button and select “Force an incremental backup now” from the pop-up menu:



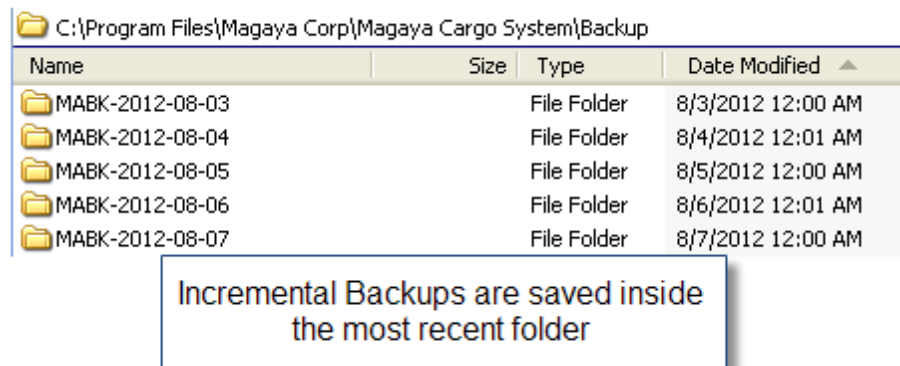
- 3) The system asks if you want to perform this task. Click “Yes” to confirm it and proceed.



The backup will be completed. Depending on the size of your database, the time for this backup will vary. Users can continue working during the backup. You may see a progress bar in the dialog box for the Magaya Database Server:



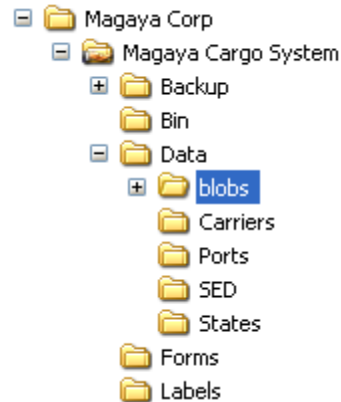
The incremental backup is saved in the folder with the most recent automated full backup.



The most recent, automated full backup is saved in this folder.

Note: A file extension **.bk_** means the file is compressed, and **.bak** is not compressed.

Remember: You must also make a backup of the Blobs folder by copying it to another location. This will not be done automatically as of the publication date of this documentation. The Blobs folder is located in the installation folder for Magaya software:



The Blobs files are unstructured data such as photographs or attachments. They are saved in a separate location from your database to help optimize the Magaya system. For details on optimizing your Magaya system, please see the section “Database Performance”.

Automate Database Backups: Overview

The Magaya Database Server Agent enables you to schedule automatic backups to occur when you want them to occur. You can automate full backups and incremental backups.

IMPORTANT: Set up the schedule on the server computer:

- **Ensure the server computer will be on during the time that the backup is scheduled to occur.**

For example, if you schedule an automated backup for 12:00 AM, then do not turn off the server computer overnight. It must be running to perform the backup.

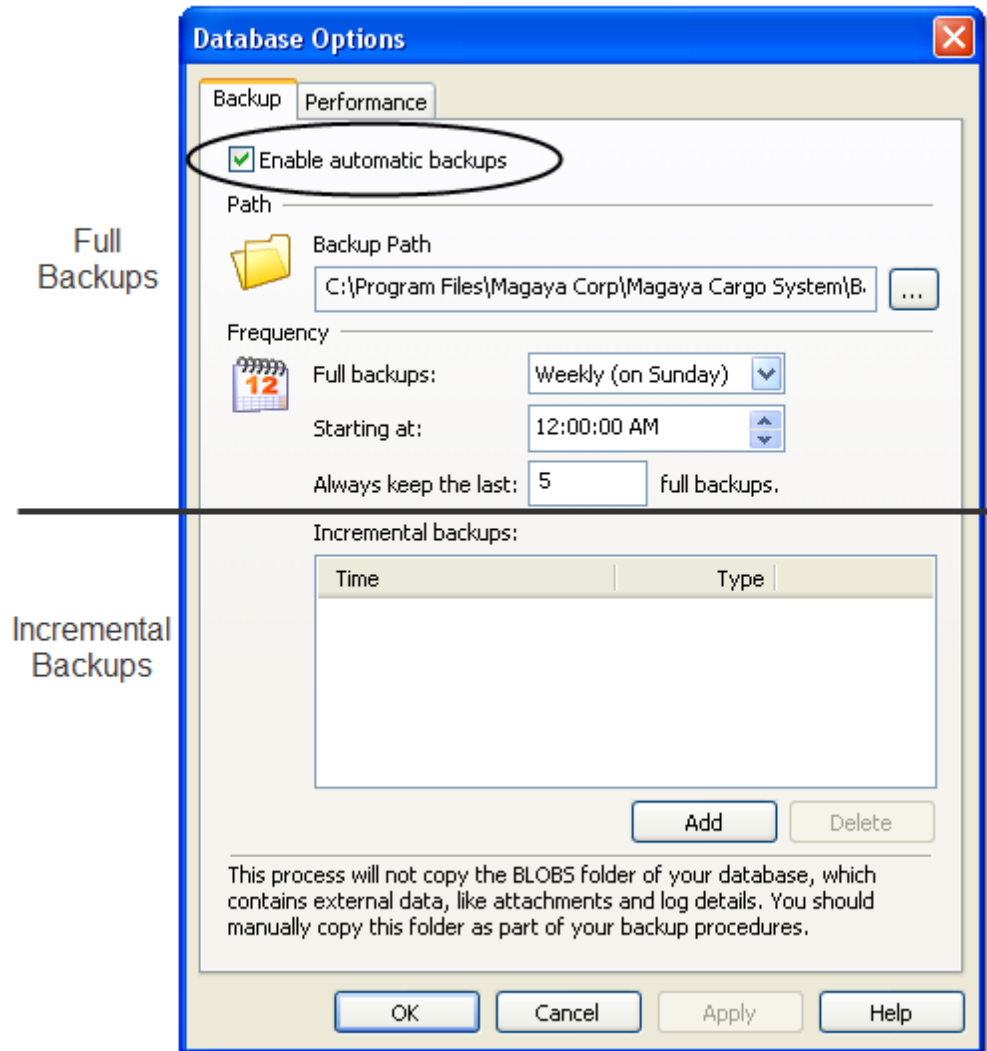
- Ensure all users are logged off.

Automate Full Backups

To set up your database to make a full backup automatically, follow these steps:

- 1) Click the “Options” button in the Magaya Database Server Agent dialog box.

Another dialog box opens called “Database Options”. It has a tab “Backups” that has the following functions:



- The checkbox for enabling automatic backups is checked by default. (If you do not want the backup to happen automatically, uncheck the box.)
- The Backup Path field shows the locations where the backup file will be saved. **This computer must be on to perform the backup.** Do not turn off this computer. If you want to change the location, click on the button with the three dots.

- Select the frequency of the full backup: Every Day or Weekly (On Sunday); and set the time of day. 12:00 AM is recommended.
- Enter a number of the amount of past backups you want to save. The system will keep the most recent backups and delete the oldest backup file when it reaches the number set here. If you want to save a backup file for a longer period of time to keep a longer history, then increase the number here or copy that file into another file location. This automated process will not save all backup file indefinitely.
- Click the OK button to save your settings.

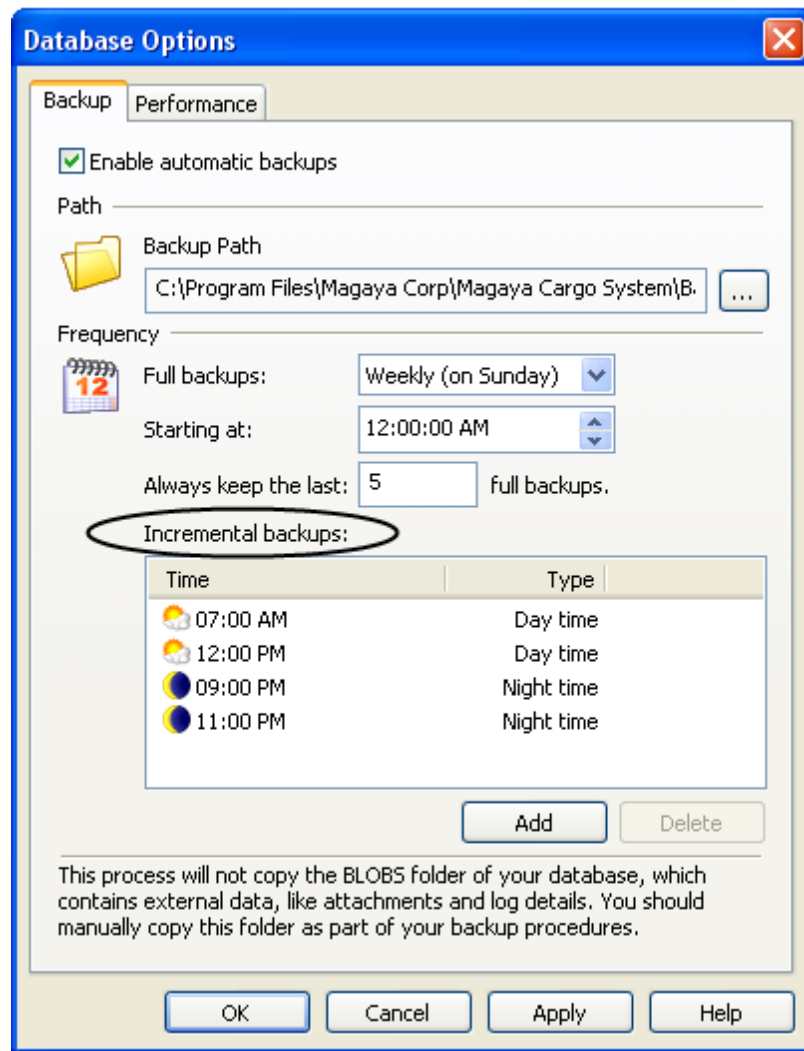
The backup file is saved in a folder with the date of the backup. The folder is saved in the location that is identified in the dialog box for the Magaya Database Server. Any incremental backups performed after this full backup are also saved in this folder.

Remember: You must also make a backup of the Blobs folder. This will not be done automatically as of the publication date of this documentation.

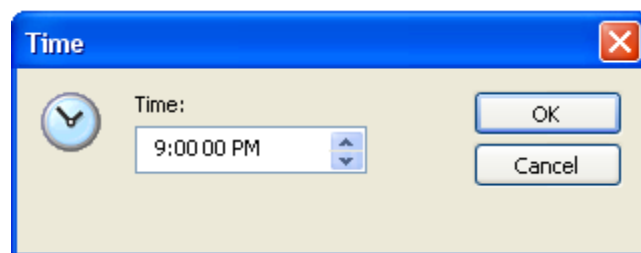
Automate Incremental Backups

- 1) Open the Magaya Database Server Agent by right-clicking on the icon in the taskbar.
- 2) Click the Options button in the dialog box.

- 3) On the “Backup” tab of the Database Options dialog box, click the “Add” button under the Incremental Backups section of the screen.



In the dialog box, set the time for the incremental backup.



- 4) Close the Time dialog box.

Close the Database Options dialog box.

The settings are saved, and the system will perform the incremental backup daily at the appointed time.

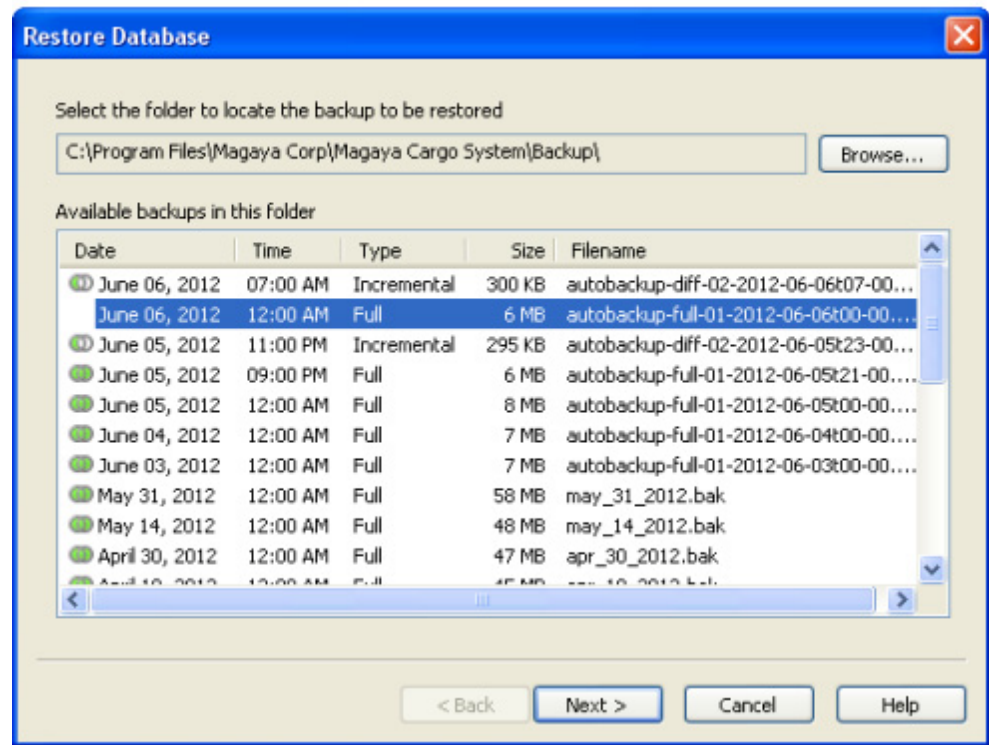
You must also make a backup copy of the Blobs folder. This will not be done automatically as of the publication date of this documentation.

Restore Data from a Backup File

To restore the data to your Magaya database, follow these steps:

- 1) Close your Magaya Explorer.
- 2) Right-click on the Magaya Communication Server Agent icon in the taskbar and select “Stop Communication Server”.
- 3) Open the Magaya Database Administrator Agent by right-clicking on the icon on the taskbar and selecting “Open Database Administrator”.
- 4) Click on the “Stop” button.
The “Restore” button will become active. It may take a moment.
- 5) Click the Restore button.

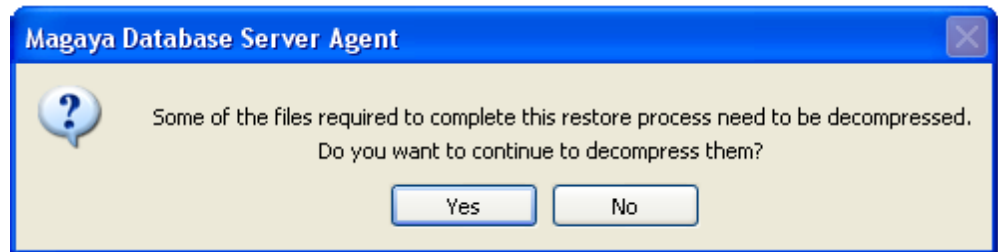
- 6) Locate the backup file in the dialog box.



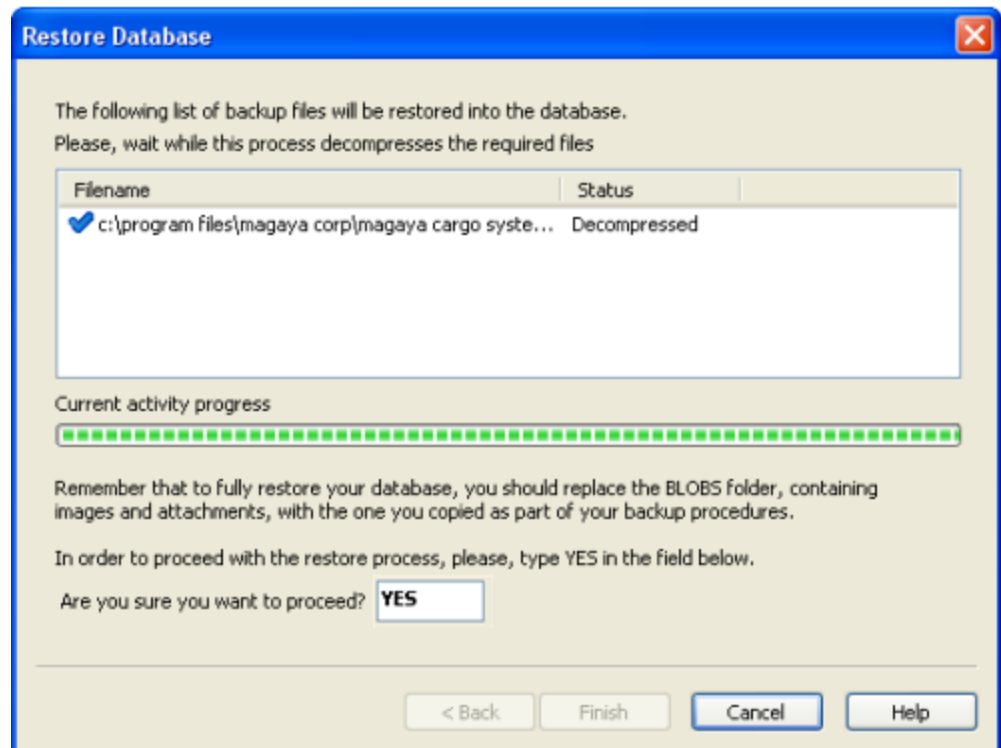
Backups are displayed in chronological order and are labeled as Full or Incremental. You can go back to a desired time, and the system will automatically restore the Full backup and any Incremental backups since that

time. The full and incremental backups work together and depend on each other.

If files need to be decompressed, the system asks you if you want to decompress them now:



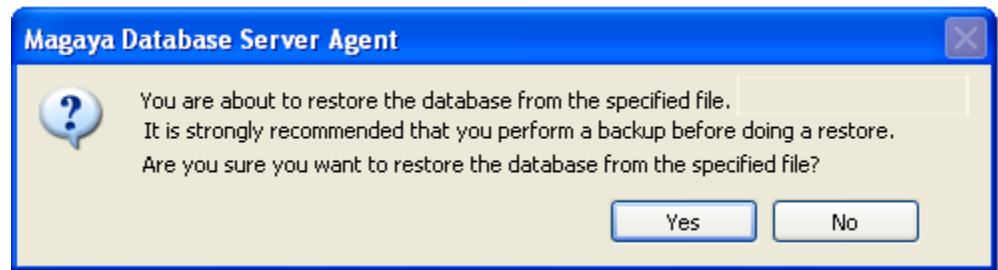
When the decompression is completed, the system shows you the result and asks if you want to continue:



Type "Yes" and click the "Finish" button.

If the system does not need to decompress files, a message will ask if you

are sure you want to restore the data from the specified file. Click “Yes”.



The database will restore and start again automatically.

- 7) Start the Magaya Communication Server Agent by right-clicking on the icon on the taskbar and selecting “Start Communication Server”.

Now you can open your Magaya Explorer.

Database Performance

Magaya software version 8.5 and later includes features designed to help optimize large databases. These are optional processes and not required for all Magaya customers. These optimizations are recommended if you have a large database with long lists of customers, carriers, vendors and other entities; numerous transactions such as Warehouse Receipts and other operations and accounting transactions; and many photographs or other attachments.

Improving the performance of your Magaya database is a multi-step process which begins with the following options in the Configuration menu:

- Recycling records
- Extracting heavyweight data to save it outside the database in a Blobs folder
- Shrinking the database

Please read ALL these steps carefully BEFORE beginning the optimization processes. The Recycling process is recommended to be done first. If you have questions, please contact Magaya Technical Support.

If you are updating your Magaya system from a version before 8.5, the update and optimization processes will require approximately 2.5 times the existing

space. The space will be free after the optimization. Make a backup before these processes.

Recycling

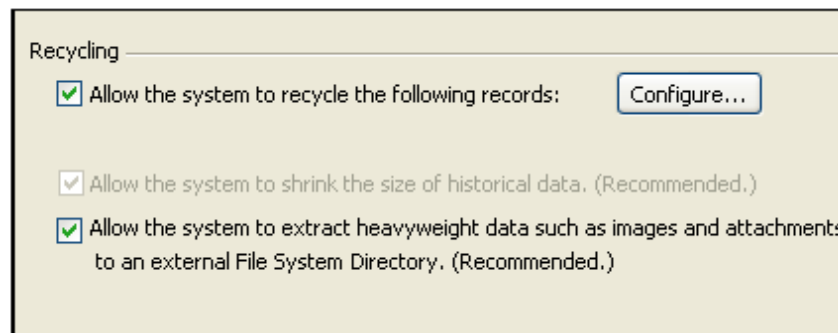
The Recycling process helps keep the size of your Magaya database small by allowing you to set the amount of time you want to keep messages or transactions in the database. When the timeframe is met, the items are moved out of the database. If you need them, they are available in the backup file.

Perform the Recycling step before any other optimization steps.

- 1) Go to the Maintenance folder > Configuration menu.

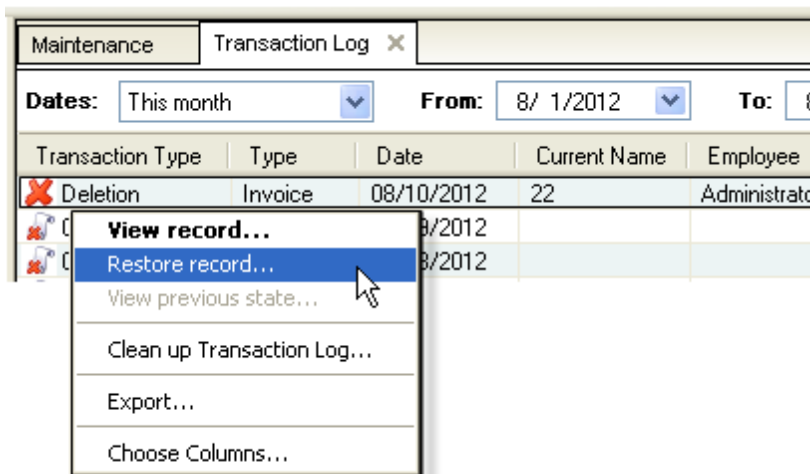
Select “Maintenance and Performance”. This screen has a few sections, but this topic explains the functions in the “Recycling” section of the screen.

- 2) Check the box to “Allow the system to recycle the following records”.



- 3) When you check this box, the “Configure” button is activated. Click the Configure button. A dialog box opens.
- 4) In the dialog box, set the number of days you want to keep transactions. For example, you can set how long to keep transactions in the Transaction Log. The Transaction Log keeps a record of every transaction, including deletions. (For example, when an Invoice is deleted from the Invoice List,

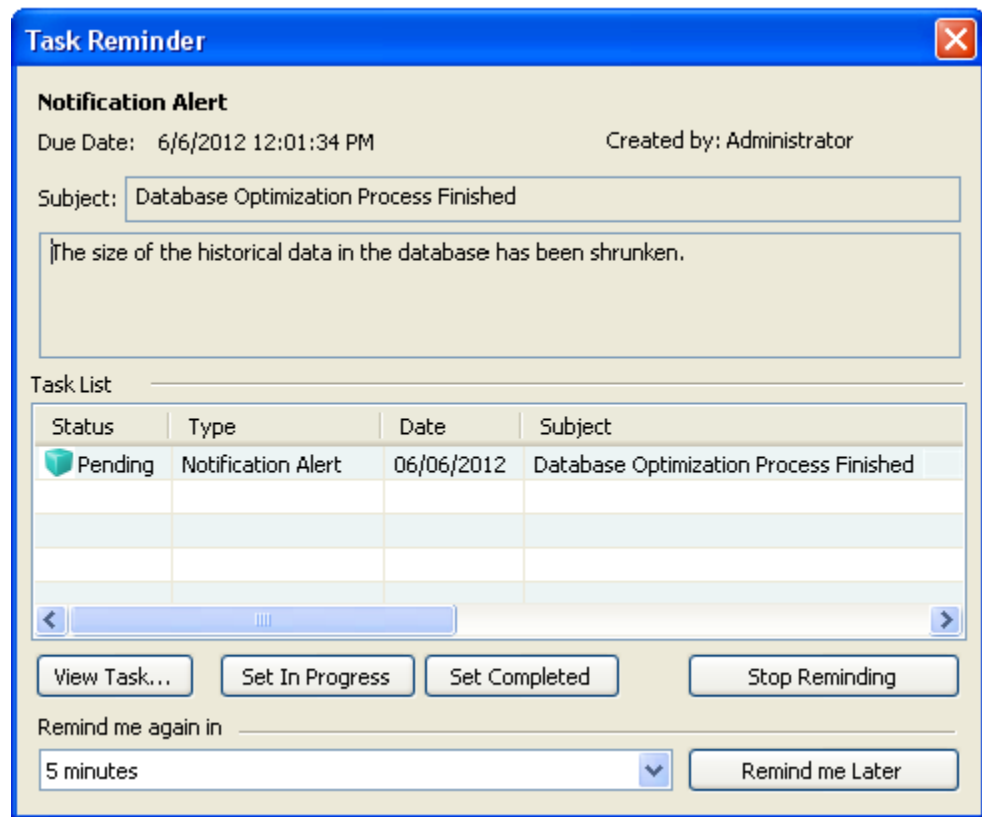
it is still saved in the Transaction Log, where it can be restored by right-clicking on it.)



When the Transaction Log is cleaned up, the transactions are removed from the Transaction Log, but they can still be accessed via the backup file if you need them later. Backup your data before cleaning up the Transaction Log. It is important to clean up the Transaction Log to help reduce the size of your database. To find the Transaction Log, click the “Options” button on the top menu of your Magaya Explorer.

- 5) When you click the “Save” button, the recycling process begins. The recycling process will run in the background while users are working.

When the process is completed, the system creates a Task Alert to notify you, as shown in this example:

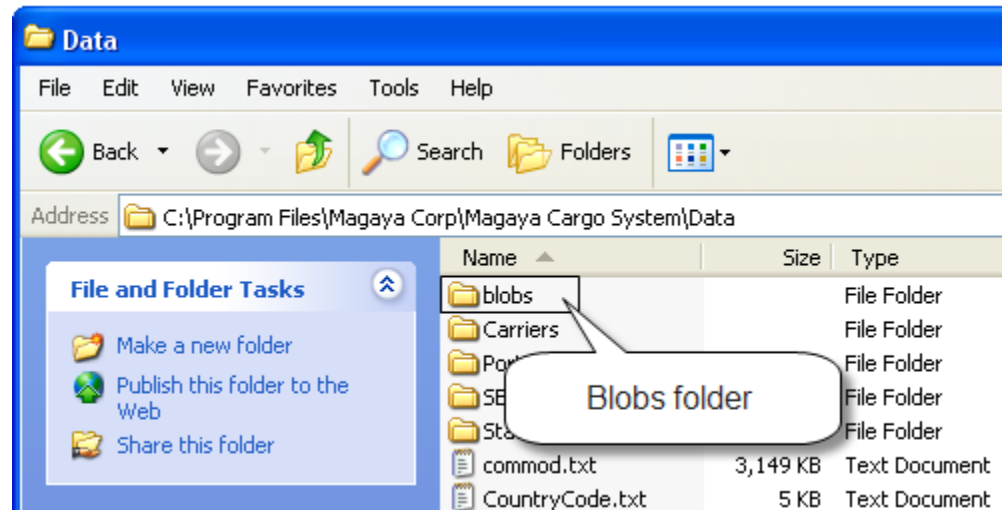


Click the “Set Completed” button in the Task Reminder dialog box and close it.

Extract Heavyweight Data to the Blobs Folder

Another way to improve performance is run a process to extract large files from your database and save them in a “Blobs” folder. The Blobs folder contains all the attachments such as images and PDFs that are attached to Warehouse Receipts and other Magaya transactions. These attachments are considered “unstructured” data and are saved outside the database in the Blobs folder. (The word “Blobs” refers to binary large object or basic large object.) The folder is

stored in the Program Files (unless your system is set up differently) in the Magaya Corp folder > Data. Here is an example:



When you backup your Magaya system, you must backup the Blobs folder separately from the backup process. It is not part of the automated backup process as of the date of this documentation. To backup the blobs, go to the folder and copy it and save it in another location.

If you restore your database to another computer and do not copy the Blobs folder also, then the attachments will not appear in their transactions. If this happens, copy the folder to the new computer, and the images, etc. will be restored also.

Steps:

- 1) Go to the Maintenance folder and click “Maintenance & Performance”.
- 2) Check the box “Allow the system to extract heavy weight data such as images and data to an external File System Directory”.

This optimization will be applied to every transaction, current, future and past. The large files will be placed outside the database. The system creates a folder automatically in the Magaya software data folder.

The result of the unstructured data being stored in the Blobs folder is improved database performance. This is especially beneficial for companies with large databases that contain years of transactions and many MBs of photographs. Backups will also be faster.

Shrink the Database

Another way to improve the database performance is to reduce (shrink) the size of the database. This process is done in two parts, one in the Maintenance screen, and another in the Magaya Database Server Agent dialog box.

The best time to perform this database shrink process is after unstructured data has been moved out of your database into the Blob folder and after you configure the Maintenance of your system to perform the Recycling processes as explained in the “Recycling” topic.

Follow these steps to shrink the database and gain performance improvements:

A. Shrink the Historical Data:

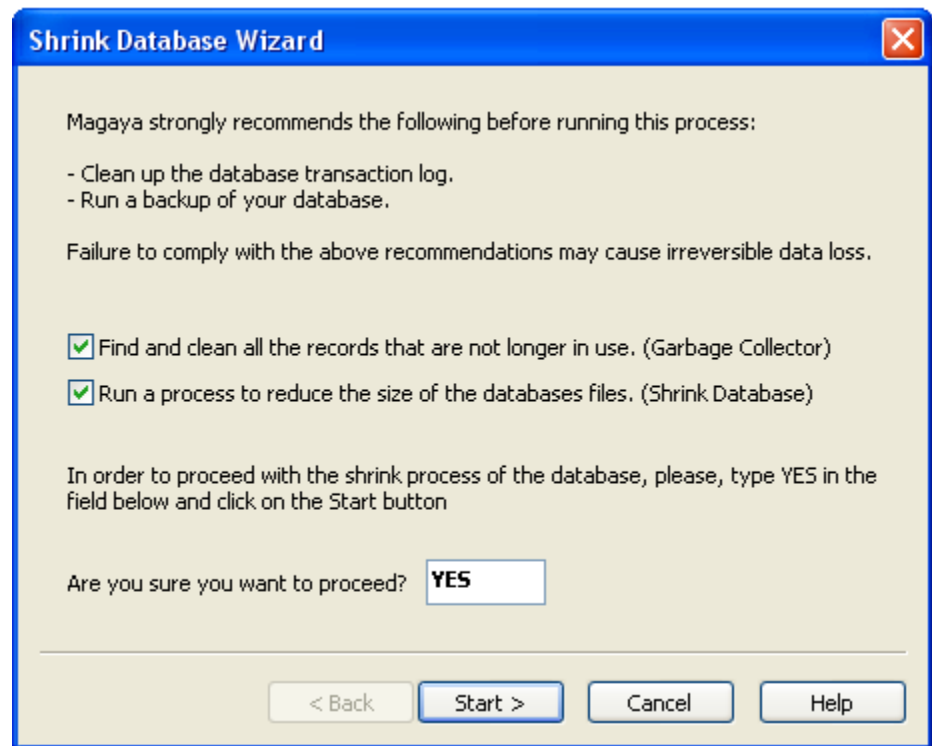
- 1) Go to the Maintenance folder and click “Maintenance & Performance”.
- 2) Check the box “Allow the system to shrink the size of historical data.” This will reduce the size of all legacy transaction files. This will go back through old transactions, not just current transactions moving forward from today.
- 3) Click “Save”.

When this process is completed, the system will notify you with a Task.

B. Shrink the Database:

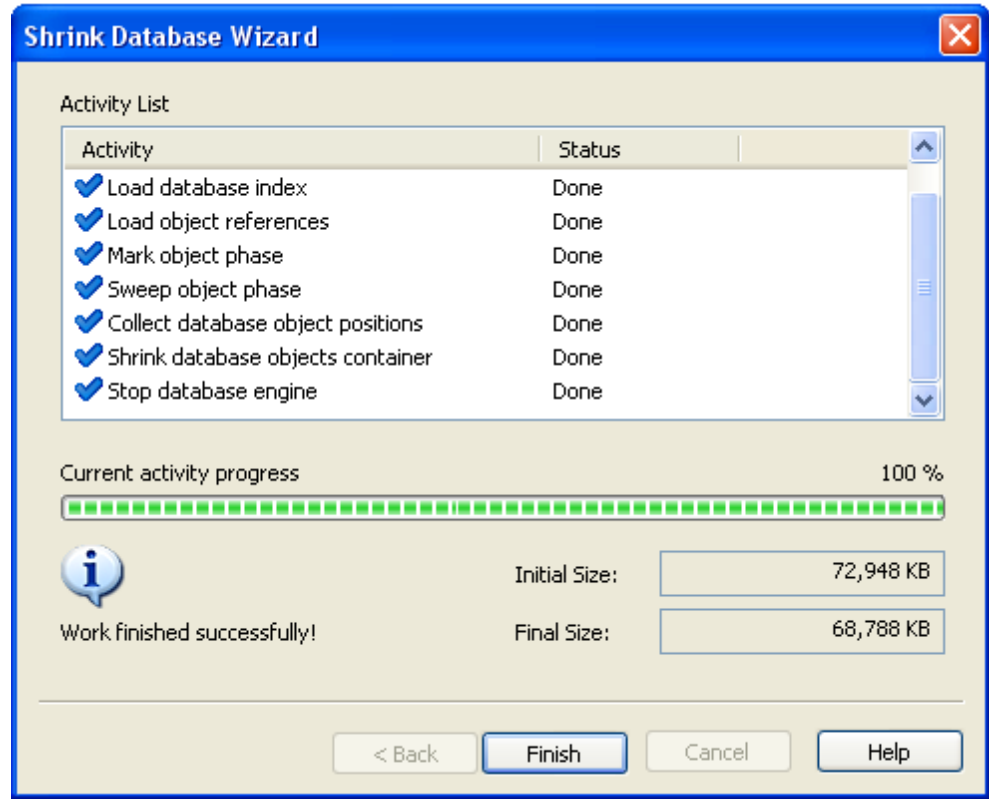
- 1) Make sure all users are logged off.
- 2) Stop the Magaya Communication Server.
- 3) Make a backup of your Magaya database.
- 4) Stop the Magaya Database.
- 5) Open the Magaya Database Server Agent dialog box from the taskbar
- 6) Click on the “Tools” button, and select “Shrink Database”. A wizard opens. In the wizard, the following procedures are checked by default (ensure they are checked; both processes are recommended):
- 7) Make sure the two checkboxes are checked:
 - Garbage Collection: This process will find and clean up files that are no longer in use
 - Shrink Database: This will run a process to reduce the size of the database by reusing the space that the Garbage Collection process freed up. The Shrink process also moves data objects closer together so it is easier for the system to access them, similar to defragmenting a hard drive.

- 8) Type “Yes” in the box to proceed.



- 9) Click the “Start” button. The length of time this will take depends on the size of your database.

When the process is completed, a dialog box tells you the size of the database.



- 10) Click the “Finish” button when the process is completed.
- 11) Start the Magaya Database.
- 12) Start the Magaya Communication server.

The system is now optimized to save data more efficiently in the future. You will not need to perform this task again. The system is ready to use.

Memory Usage

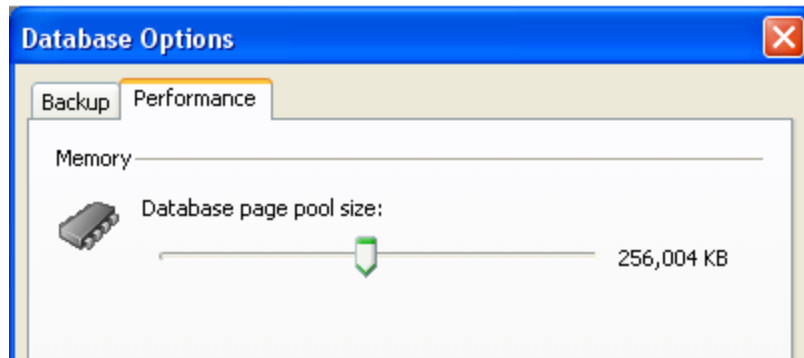
To set how much RAM you want the system to use, follow these steps:

- 1) Open the Magaya Database dialog box from the taskbar to perform the next optimization.
- 2) Click the Options button. A dialog box opens.

- 3) Click the “Performance” tab.

On the Performance tab is an option to allocate additional memory for the Magaya system to use.

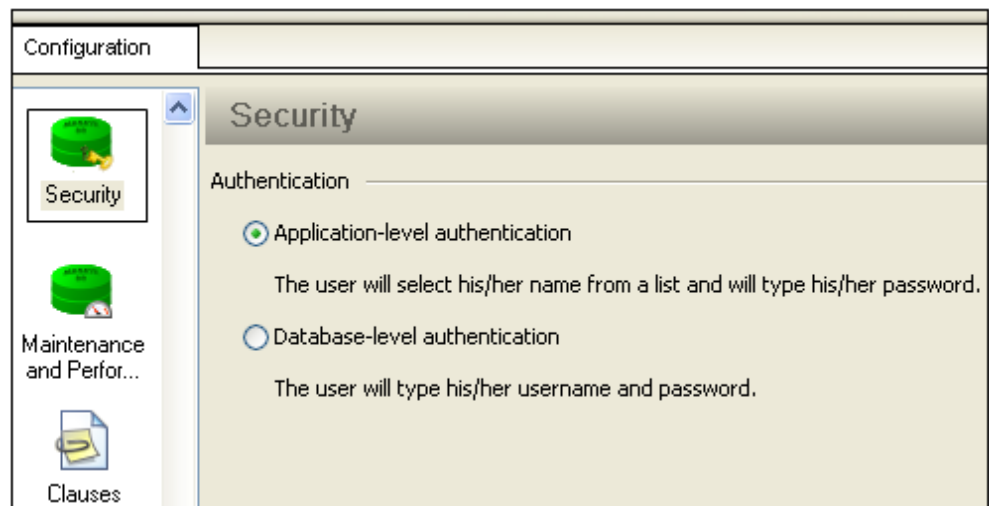
If your hardware has more memory, click and move the slide bar to increase the amount of memory you want the system to use.



- 4) Click “OK” to save the setting.

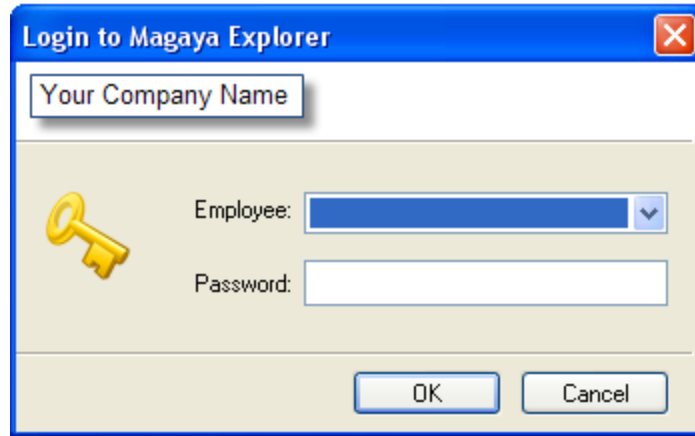
Security: Server Authentication

Administrators can set the level of authentication required by users to log into the system. This is set in Maintenance > Configuration > Security. There are two options: Application-level or Database-level authentication.



The Database-level authentication is stronger than the Application-level authentication because users must type in their user name and password instead of select their user name from a list.

The following screenshot shows Application-level authentication:

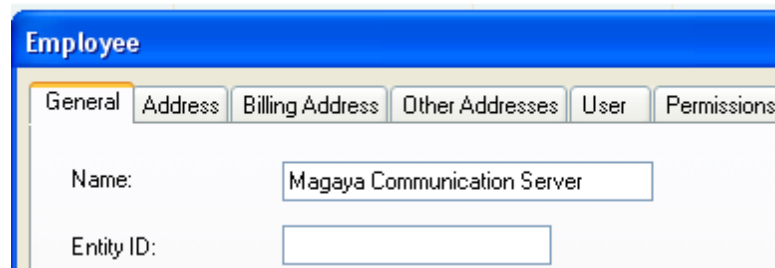


To change the authentication option for the database level:

In Maintenance > Employees:

- 1) Create user names for all employees, including yourself, if you do not have them already. If you do not create user names, the system will create them for you during the process.
- 2) Create an employee for the Magaya Communication Server.

The Communication Server also logs into the database. You need to create a user name and a password for the Communication Server so it can connect to the database.



On the User tab, also create a user name for the Magaya Communication Server.

- 3) Make a note of the user name and password for the Magaya Communication Server, and make sure you know your user name and password. You will need both to log in again.

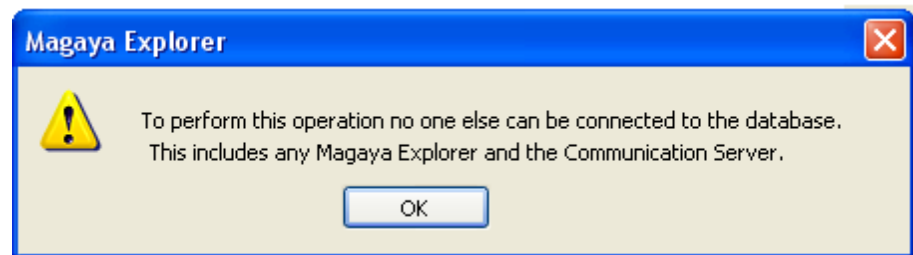
Tip: To help keep track of login information, you can export employee user names via the Actions button in the Employee list view, or create a report by Name and print or email it.

Continue with the next steps:

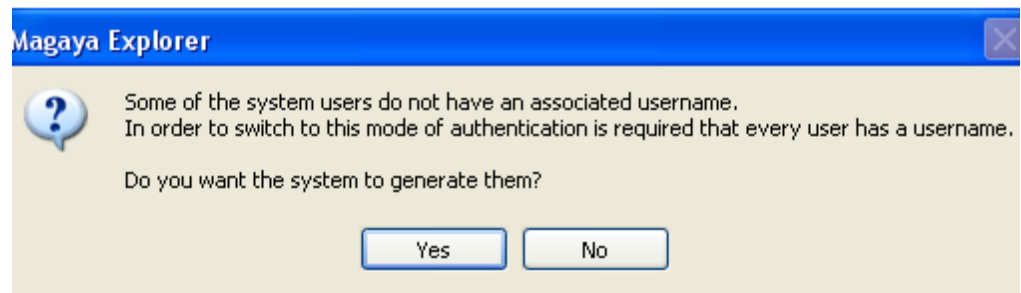
In Maintenance > Configuration > Security:

- 1) Click the “Database-level authentication” option.
- 2) Click “Save”.

Confirm that you want to perform the operation.

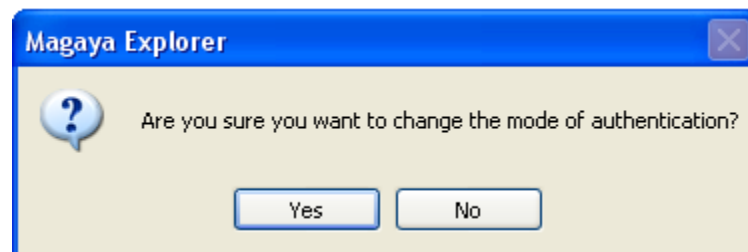


If you do not have user names, the system presents this message:



- 3) While this screen is open, stop the Magaya Communication Server. Wait until it notifies you it has stopped.

The system asks you to confirm your choice:



- 4) Restart the Magaya Communication Server.
- 5) Close your Magaya Explorer.
- 6) Right-click the Magaya Communication Server icon, and select the option “Database Credentials”. Enter the user name and password of the Magaya Communication Server. Restart it.
- 7) Open Magaya Explorer and log in with your user name and password.

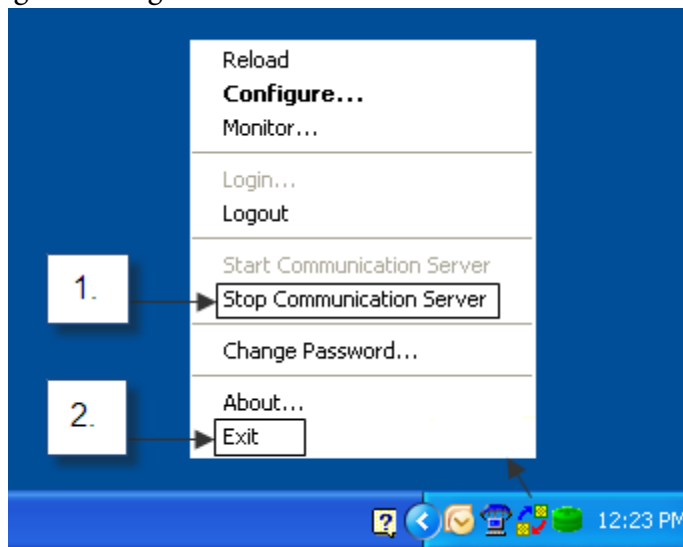
Update Magaya Software

To update your Magaya software, perform the following steps. **NOTE:** When updating to a new version, familiarize yourself with the new features, especially new permissions and roles because these may change how employees access functions. New features are announced in the newsletter and on Magaya.com.

CAUTION: Follow these steps in this order.

- 1) **Ensure all users are logged off the Magaya system.**
- 2) **Backup your data.** (via the Magaya Database Server Agent. For details on backing up data, see the *Magaya Software Customization Manual*.)
- 3) Stop the Magaya Communication Server Agent by right-clicking on the icon in the taskbar and selecting “Stop Communication Server”.

Then right-click again and select “Exit”.



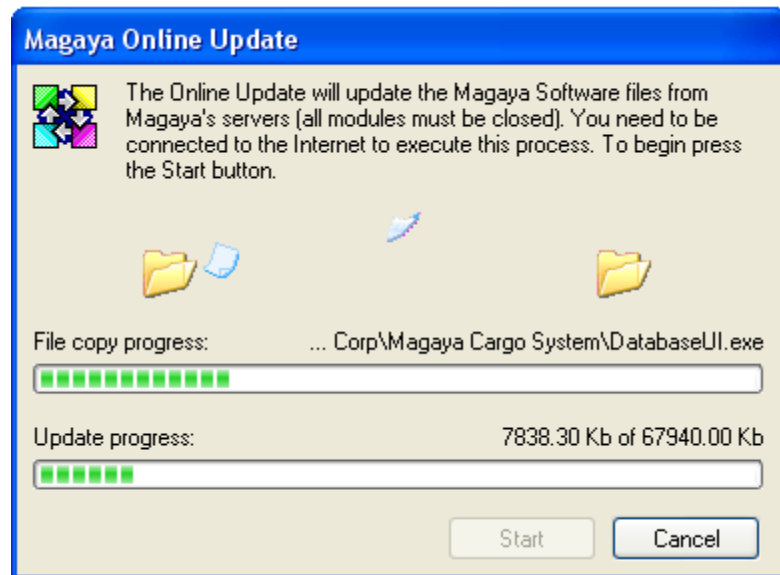
- 4) Right-click on the Magaya Database Server Agent icon and select “Stop Database Server”.

Then right-click again and select “Exit”.

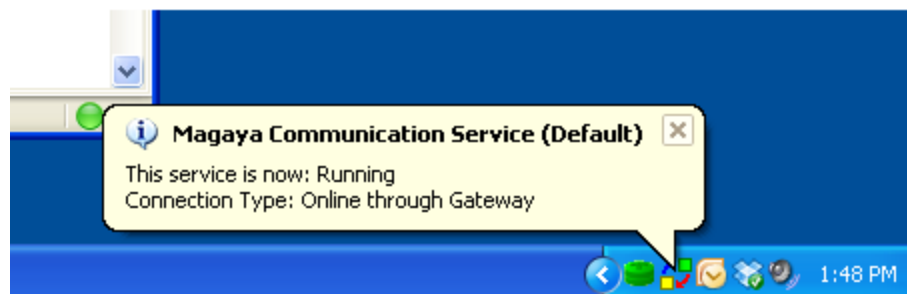
- 5) Go to the Magaya software installation folder and double-click on the **OnlineUpdate.exe** file to run the file. This is the icon:



- 6) Click “Start” in the Online Update window to start the update.



- 7) When the update is complete, the Magaya Database and Magaya Communication services will start.



- 8) Restart the computer (or server) to apply the update.

Then the update will be active on all the computers in your company that run Magaya software. When the user logs in again, the new version will run.

If you receive a message stating that you need to restart your server, follow these steps:

- 1) Click OK on the message notifying you that the Communication Server cannot connect to the Database. (It will run in the next step.)
- 2) Click on the Magaya Cargo Explorer icon on your desktop.

- 3) Type “Yes” in the field that asks if the backup was done. Now the Communication Server will be able to connect to your database.
- 4) Click on Start and go to All Programs > Magaya Software > Magaya Communication Server to manually start the Communication Server. The server computer has now been updated to the latest version.

If you are running an older version of the software, the system may alert you if you need the installation of the XML. Click the OK button and the system will automatically perform the installation. After that process, computer is ready to use the latest version.

If you have any questions or encounter any problems doing the update, please contact Technical Support by phone at (786) 845-9150 or online at Magaya.com

Note: There is a video on the Magaya.com Learning Center webpage that shows you how to perform an online update.

Appendix

JavaScript Basics

In addition to using formulas to calculate tariffs and rates in Magaya software, you can use JavaScript.

Variables

You can use variables in your JavaScript code. Make sure you do not declare any variable with the same name in your functions; this will obscure the variables that are already defined in the Magaya system.

Here is the list of these variables:

Table 1: Variables

Variable	Name
P	Pieces
W	Chargeable Weight
G	Gross Weight
V	Volume
A	Value
T	Time
L	Volume Weight

The `return` keyword:

When you are writing a JavaScript function to perform a calculation, you need to return the calculated value by using the `return` keyword.

Example:

Code	<pre>function OperatorExample() { return 3 * (G + 10) / 4; }</pre>
------	--

This function will return 3 times the value of G. The `return` keyword not only returns the value, but also ends the flow of the function.

Basic Operators

To perform mathematical operations such as addition and multiplication, the operations must be represented with operators to get the results you want. Here are the most useful operators available in JavaScript:

Table 2: Basic Operators

Operation	Operator	Example	Priority
Addition	+	X = V + 5;	Lower
Subtraction	-	X = P - 2;	Lower
Multiplication	*	X = 10 * G;	Higher
Division	/	X = G / 1.5;	Higher

By combining these four basics operators, you will be able to make almost any mathematical expression you desire.

The evaluation priority of the operators determines the order in which the expression is evaluated. Multiplication and division are evaluated first, and then addition and subtraction are evaluated.

To change the evaluation order of an expression, use parenthesis. Parenthesis increase the evaluation priority of the surrounded portion to the highest possible priority.

Example:

Code	<pre>function OperatorExample() { return 3 * (G + 10) / 4; }</pre>
------	--

This example will evaluate the expression in the following order:

- 1) G + 10
- 2) The result of G + 10 will be multiplied by 3.
- 3) The result of step 2 will be divided by 4.

Assignations

Sometimes when writing functions or formulas, we need to hold temporal values some place. To accomplish this we use *variables*.

An assignation is the process of making a variable equal to a given expression. Let's see an example:

Code	<pre>function AssignExample() { x = G + 10; y = 3 * x / 4; return y; }</pre>
------	--

This example shows how assignations work, similar to the previous example but with differences:

- 1) Calculates $G + 3$ and hold the result in to x .
- 2) Calculates $3 * x$ and then divides it by 4; where x is holding the value of the previous assignation
- 3) Returns the value held in y

Useful Mathematical Functions

There are some mathematical functions that can be used when programming in JavaScript to help the calculation of more difficult expressions. Here are some of them:

Table 3: Mathematical Functions

Function	Description	Example
Math.round (x)	Rounds x to the immediate higher or the immediate lower integer value using the approximation rules and returns the resulting value	y = G * 4; m = Math.round(y); return m;
Math.floor (x)	Returns the immediate lower integer value	return Math.floor(4.4);
Math.ceil ()	Return the immediate higher integer value	return Math.ceil(5.6);

Function	Description	Example
Math.min (x, y)	Returns the minimum value between x and y	return Math.min(W, V);
Math.max (x, y)	Return the maximum value between x and y	retrun Math.max(W, V);
Math.abs (x)	Return the absolute value of x	return 2 * Math.abs(W - G);

Remember that JavaScript is case sensitive. Functions and variable names must be written exactly as they were created, using the same upper case and lower case characters.

Conditionals

Your functions will not always be a trivial sequence of statements executed in the very same order. Sometimes you will have to take a different path to meet the desired results. To do that, you will need to control the flow of your program.

If (condition) :

This construction will allow you to make a decision in your code based on a given condition.

Example:

Let's suppose that we want to get a result based on the value of volume. We want to return twice the value of the volume but it can't be less than 20. If it's less than 20 we just want to return 20. Here's how to do it:

Code	<pre>function Conditions() { a = 2 * V; if (a < 20) a = 20; return a; }</pre>
------	--

In this example, the value of 2 times V will be held on the variable a. Then this value will be compared to 20, and here the decision is made: if the value is less than 20, let's make it 20. Then the resulting calculation is returned.

Comparison Operators:

To evaluate conditions, we used comparison operators such as *less than*. The following are the most commonly used ones:

Table 4: Comparison Operators

Comparison	Operator	Example
Equal to	<code>==</code>	<code>if (G == 2) ...</code>
Different to	<code>!=</code>	<code>if (G != 2) ...</code>
Greater than	<code>></code>	<code>if (G > 4) ...</code>
Less than	<code><</code>	<code>if (G < 7) ...</code>
Greater than or equal to	<code>>=</code>	<code>if (G >= 8) ...</code>
Less than or equal to	<code><=</code>	<code>if (G <= 10) ...</code>

If(condition) ... else ...

This construction works just like the *if(condition)* construction, but here we have the possibility to take some action in the case of the evaluated condition is not met.

Example :

Consider you'd like to calculate the following:

- If the volume (V) is greater than the weight (W), return the volume times 4.5
- Otherwise, if the volume is less than or equal to the weight, return the weight times 5

To accomplish that let's use the *if(condition)... else...* construction:

Code	<pre>function ConditionsWithElse() { if (V > W) { result = 4.5 * V; return result; } else { return 5 * W; } }</pre>
------	--

Note that a pair of braces ({}) was used to make a statements group. The purpose of this is to tell the JavaScript interpreter that not only the first statement

following the `if` clause has to be executed when the condition is met, but the complete block of statements into the braces.

Using the Script Columns Feature

Introduction

Scripts written in JavaScript can be used to calculate information and display it in lists or reports in your Magaya software.

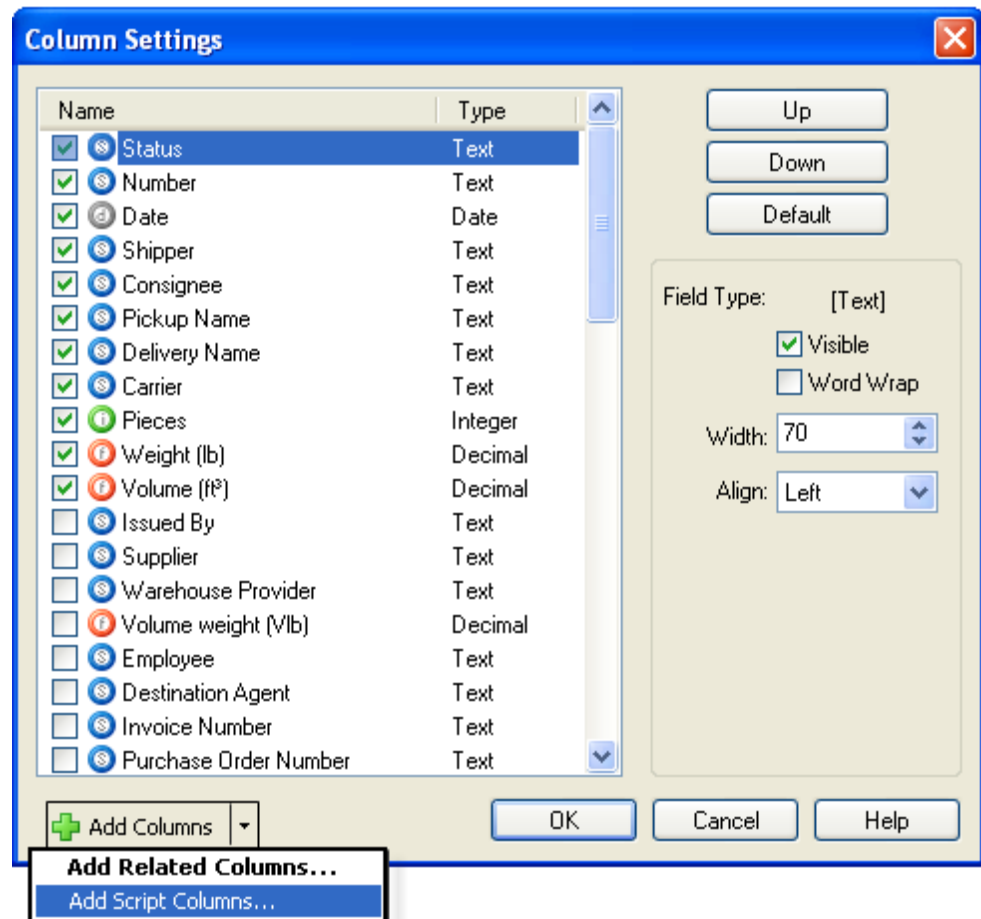
The Script Columns feature can be found on any “Choose Columns” dialog box in your system, including lists in the Warehousing folder, the Accounting folder, Maintenance, and other lists or reports.

An example of a script column is if you need to know the number of days cargo has been on hand. The script in this example will calculate the number of days based on the date the cargo arrived and today’s date.

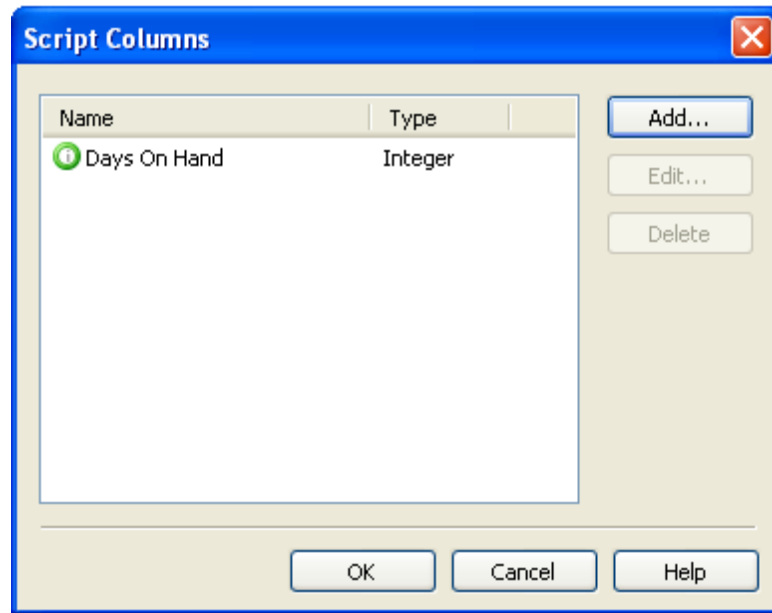
Steps

Go to the Actions button in a list or report (or right-click an item) and select “Choose Columns”.

When the “Column Settings” dialog box opens, click the arrow on the side of the button “Add Columns” and select the “Add Script Columns” option from the dropdown:

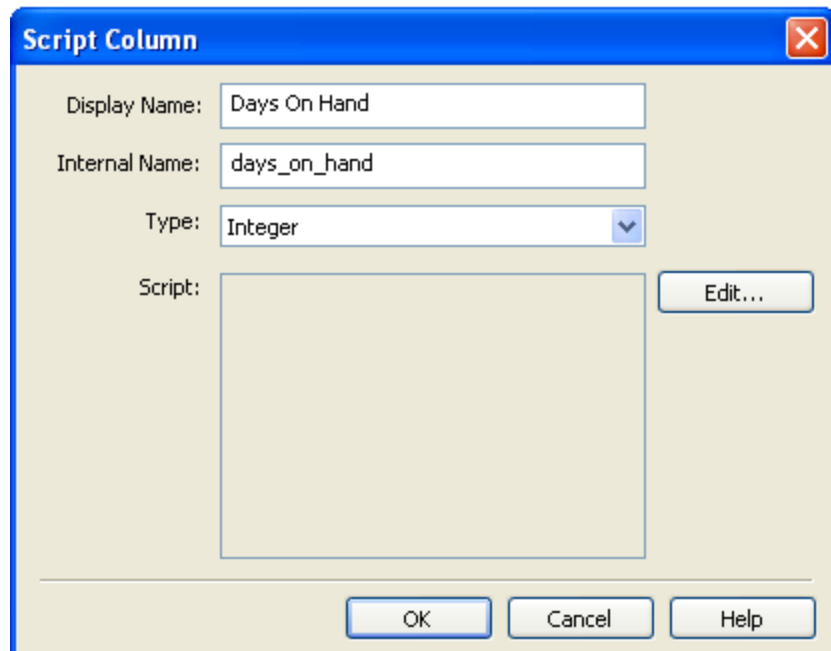


The Script Columns dialog box opens:



When you add scripts for columns to your Magaya system for this transaction (such as the Warehouse Receipt list), they will appear in this dialog box. This shows “Days On Hand” as an example script.

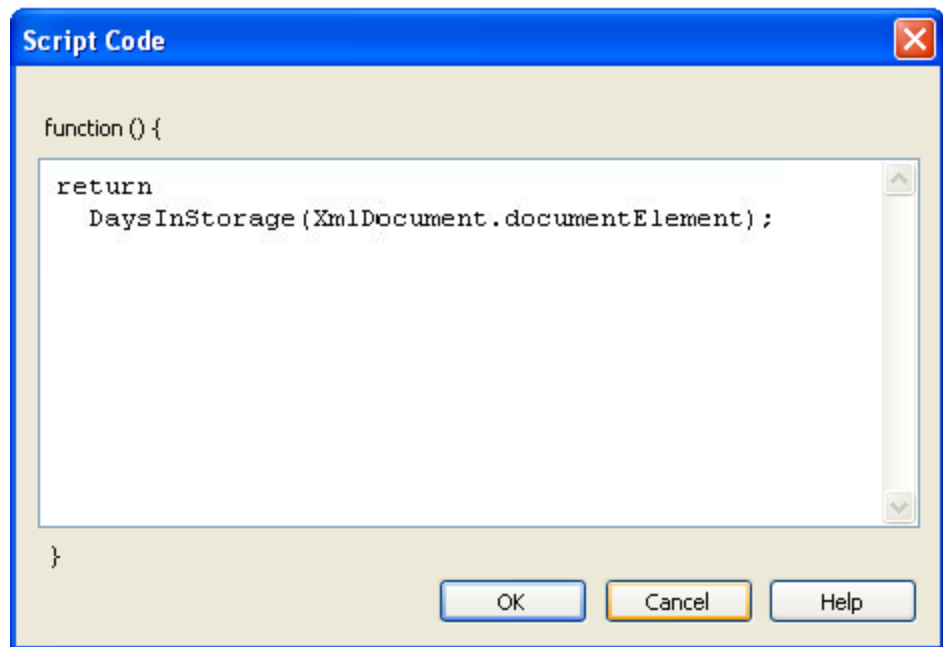
Click the “Add” button to create a new script column. In the dialog box that opens, you will enter your script:



- 1) Enter a name for the column in the “Display Name” field. Since this is the name that all users of the system will see in the list, choose a name that describes the function of the script. For the example that calculates the

number of days cargo is on hand, we entered the Display Name: Days On Hand. The Internal Name field fills in automatically as you type, using lower case letters and substituting an underscore line for any spaces. The Internal Name is used by the Magaya system.

- 2) The Type field is used to determine the format of the output (what will display in the list). The system will use this information to format the data that will display in the list. The field has a dropdown menu with the following options:
 - Text
 - Integer (this displays a number)
 - Date
 - Yes/No
- 3) Click the “Edit” button to open a window for writing the code:



The function brackets are already included. Enter the code in this screen. You can also use (refer to) JavaScript functions that you already entered in the JavaScript library that is located in the Maintenance > Configuration > JavaScript.

This example uses a function created in the JavaScript library called DaysInStorage that calculates the days an item has been on hand.

When you complete the script code, click OK to save it and return to the Script Column dialog box.

- 4) Click OK to close that box and return to the Script Columns box. The script code you entered will be displayed in the list.

The script column will also be displayed in the Column Settings dialog box. Move it to the place in the list that you want it to appear.

When you click OK, the column heading now displays in your list. It can be displayed in other lists that are related to it by choosing the “Add Related Columns” option from the Choose Columns dialog box. This column will also be available to create reports.

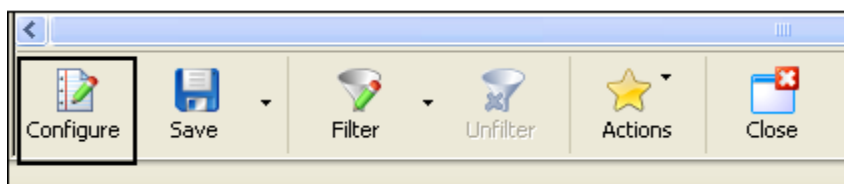
Customize Reports

You can enhance and customize the format of reports. Change the font, color, size, etc. of the different elements in the report such as company name, title, subtitle, columns headers, rows, etc.

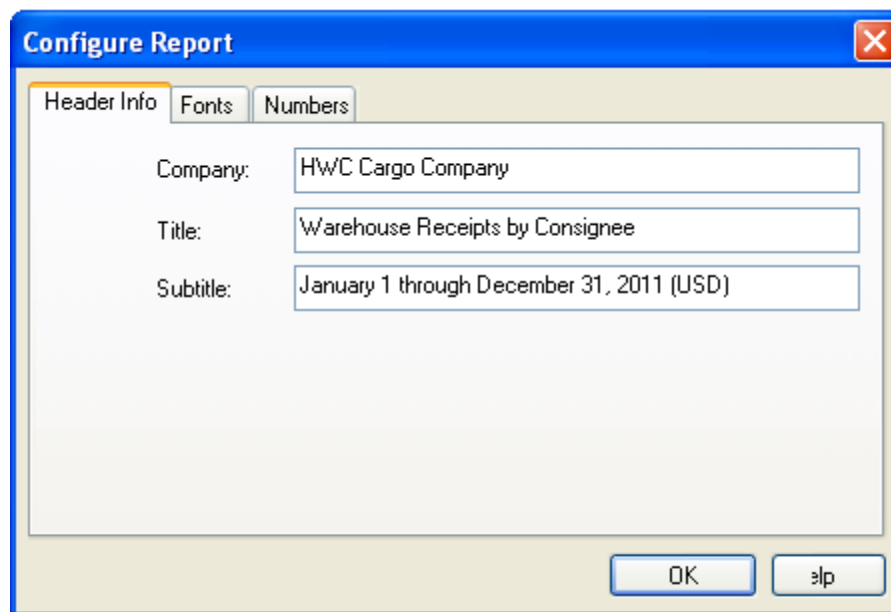
Options

Any report that you create opens in a view that includes a toolbar at the bottom of the report. To customize the report:

- 1) Click the “Configure” button.

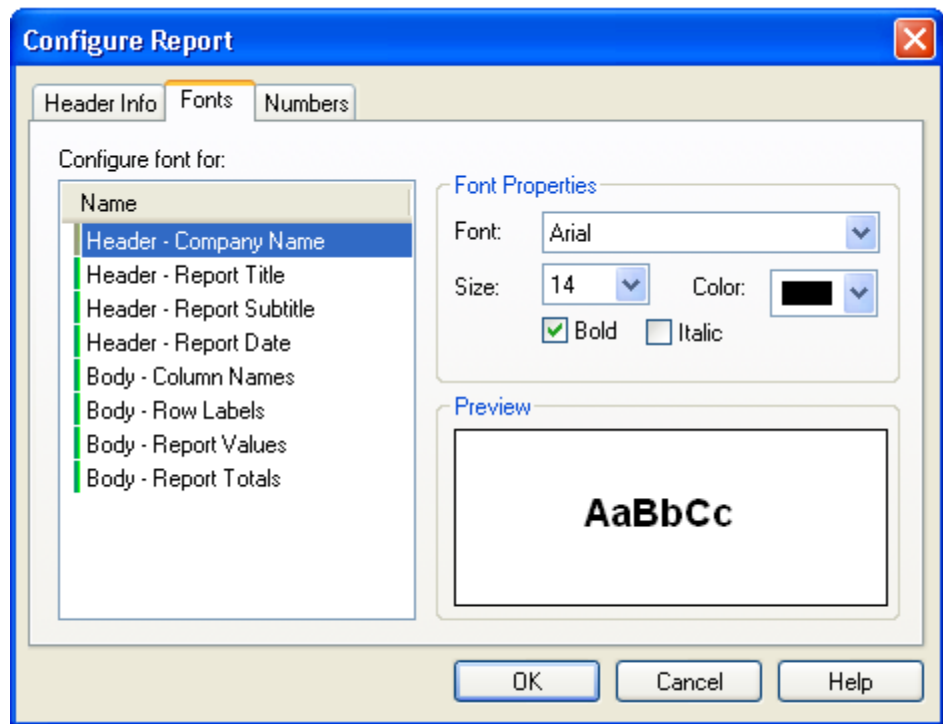


A dialog box opens with three tabs: Header Info, Fonts, and Numbers.

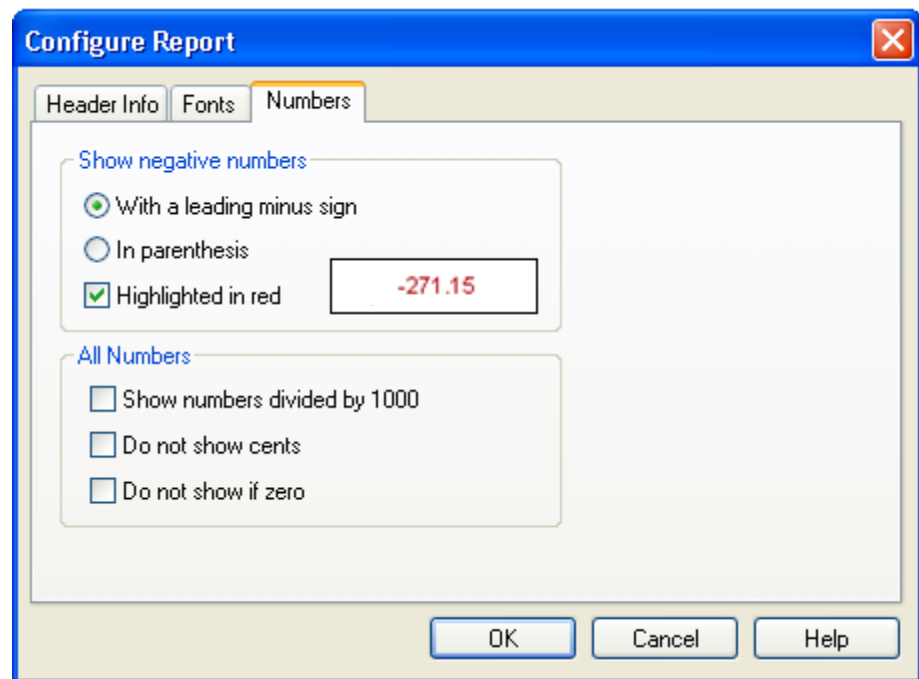


The **Header** Info tab displays your company name, the report title, and subtitle; you can change any of these as needed.

- 2) Click the “**Fonts**” tab. Select the element you want to customize such as the Header – Company Name. Make changes to the font and click OK.



- 3) Click on the “**Numbers**” tab for the following options:



For example, to display negative numbers in red, select the options above to see the numbers in your report as follows:

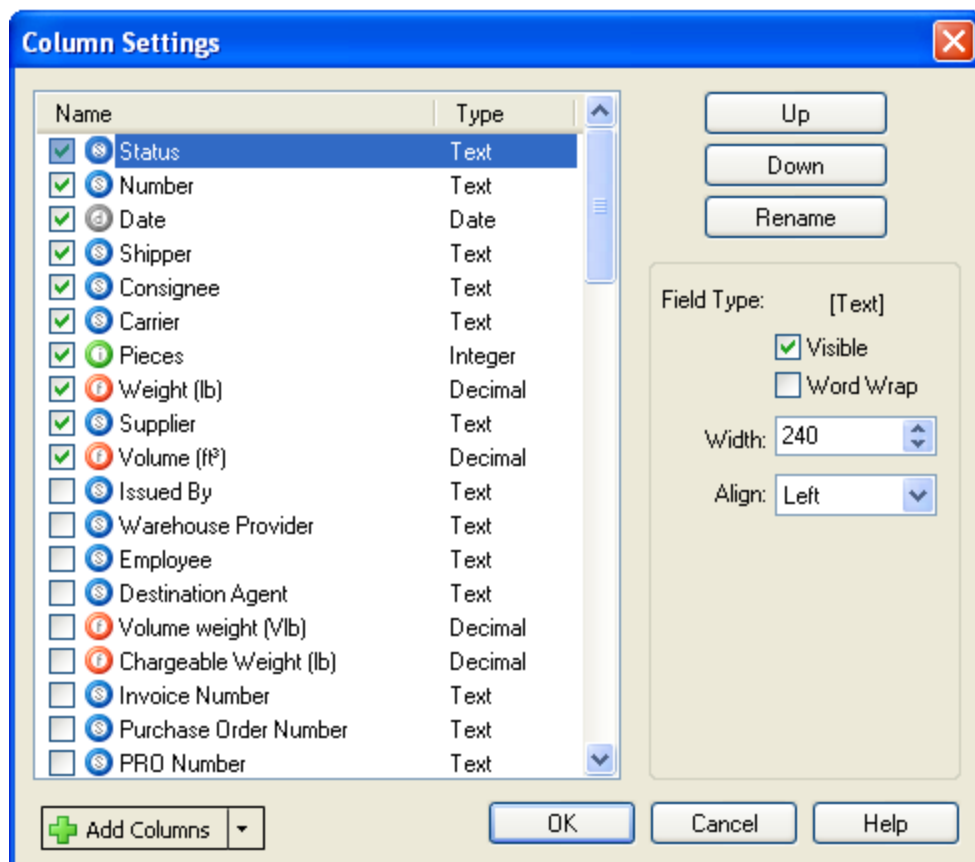
Amt. Due	Original Amount
10,700.32	10,700.32
10,700.32	
-271.15	1,500.00
-271.15	

Other options available:

- Display whole numbers or numbers divided by 1000
- Output numbers using the thousand separators, for example: 1,000,000.00
- Display negatives values in red or in parenthesis

Choose Columns:

- 1) Click the Actions button, and select “Choose Columns”.
- 2) In the dialog box that opens, select the column you want, or click the “Add Column” button to open a new dialog box with more choices.



In this “Column Settings” dialog box, you can adjust the width of any column, move it up or down, or you can type over the name of the column to change it to a name you want.

If you need to reset a report back to its original columns, click Actions > Set Default Columns.

The currency of reports can be changed (if you set your system to multicurrency), you can filter information in a report, and export a report from your Magaya system.

Save Custom Report:

The “Save” button has two options: one saves the report as is; the other allows you to save the same report by another name (previously the system would overwrite the report). This feature is especially useful when you want to create another report that is similar to the first one; now you do not have to start from scratch to build it.



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